GEORGIA INSTITUTE OF TECHNOLOGY — OFFICE OF CONTRACT ADMINISTRATION

PROJECT ADMINISTRATION DATA SHEET

[X] ORIGINAL [ ] REVISION NO. _____

Project No. A-3677 GTRI/~~GTX~~ DATE 10/ 12/ 83

Project Director: Ben Roberson ~~School~~/Lab TAL/IND.ED.

Sponsor: Gyeong-Gi Technical Open College
Seoul, Korea

Type Agreement: Research Project Agreement dated 9/12/83

Award Period: From 9/12/83 To ~~1-29-84~~ 1/20/84 (Performance) _____ (Reports)

Sponsor Amount:	This Change	Total to Date
Estimated:	$	$ 86,000
Funded:	$	$ 86,000

Cost Sharing Amount: $ _____ Cost Sharing No: _____

Title: Korean Professor Training

ADMINISTRATIVE DATA — OCA Contact John W. Burdette

1) Sponsor Technical Contact:

2) Sponsor Admin/Contractual Matters:
Dr. Ke Won Kang, Consultant
Gyeong-Gi Technical Open College
172 Gongneung-Dong, Dobong-Gu
Seoul, Korea (130-02)

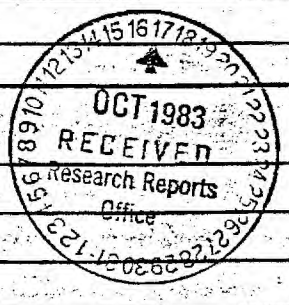
Defense Priority Rating: N/A Military Security Classification: N/A
(or) Company/Industrial Proprietary: N/A

RESTRICTIONS

See Attached -- Supplemental Information Sheet for Additional Requirements.

Travel: Foreign travel must have prior approval — Contact OCA in each case. Domestic travel requires sponsor approval where total will exceed greater of $500 or 125% of approved proposal budget category.

Equipment: Title vests with None proposed



COMMENTS:

COPIES TO:

Project Director	Procurement/EES Supply Services	GTRI
Research Administrative Network	Research Security Services	Library
Research Property Management	Reports Coordinator (OCA)	Project File
Accounting	Research Communications (2)	Other

GEORGIA INSTITUTE OF TECHNOLOGY OFFICE OF CONTRACT ADMINISTRATION

SPONSORED PROJECT TERMINATION/CLOSEOUT SHEET

Date March 16, 1984

Project No. A-3677 ~~School~~/Lab TAL

Includes Subproject No.(s) _____

Project Director(s) Ben Roberson GTRI / ~~GIT~~

Sponsor Gyeong-Gi Technical Open College

Title Korean Professor Training

Effective Completion Date: 2/29/84 (Performance) n/a (Reports)

Grant/Contract Closeout Actions Remaining:

- [ ] None
- [x] Final Invoice or Final Fiscal Report
- [ ] Closing Documents
- [ ] Final Report of Inventions
- [ ] Govt. Property Inventory & Related Certificate
- [ ] Classified Material Certificate
- [ ] Other _____

Continues Project No. _____ Continued by Project No. _____

COPIES TO:

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Project File
Other _____

Form OCA 60:1028

A 3677

Georgia Institute of Technology

A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA

ATLANTA, GEORGIA 30332

INDUSTRIAL EDUCATION DEPARTMENT
(404) 894-3950

IN COOPERATION WITH
STATE DEPARTMENT OF EDUCATION
DIVISION OF VOCATIONAL SERVICES

October 28, 1983

TO: OCA Reports Coordinator, PPD, Campus

FROM: Dr. H. Ben Roberson, Director, Industrial

SUBJECT: Project A-3677, Deliverable No. 1, Letter Report for Time Period 9/12/83 to 9/30/83

The project is within budget and all requirements have been met at this time. The schedule of activities is being prepared, housing has been located, and final arrangements are being made.

BR:dl

Georgia Institute of Technology
A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA
ATLANTA, GEORGIA 30332

INDUSTRIAL EDUCATION DEPARTMENT
(404) 894-3950

IN COOPERATION WITH
STATE DEPARTMENT OF EDUCATION
DIVISION OF VOCATIONAL SERVICES

October 28, 1983

TO: OCA Reports Coordinator, PPD, Campus

FROM: Dr. H. Ben Roberson, Director, Industrial Educa

SUBJECT: Project A-3677, Deliverable No. 2, Letter Report for Time Period 10/1/83 to 10/31/83

As of today, the Korean professors have arrived, are settled in their housing, and have begun training. The project remains within budget and is proceeding on schedule. Personal contacts with the Korean community have been made and the professors seem to be enjoying their personal time.

BR:dl

A-361

Georgia Institute of Technology

A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA

ATLANTA, GEORGIA 30332

INDUSTRIAL EDUCATION DEPARTMENT

IN COOPERATION WITH
STATE DEPARTMENT OF EDUCATION
DIVISION OF VOCATIONAL SERVICES

January 27, 1984

TO: OCA Reports Coordinator, PPD, Campus

FROM: Dr. H. Ben Roberson, Director, Indu
Department, Project Director

McCamie Davis, Research Associate II, Project Coordinator

SUBJECT: Project A-3677, Deliverable No. 3, Letter for time period 11/1/83 to 11/30/83.

The November segment of the training program for the Korean professors was divided into several learning areas. These learning areas were the intensive English class, the training at Southern Technical Institute, the class in boiler technology, the use of the library at Georgia Institute of Technology and the plant visits to several different industries.

The intensive English was very successful. The Korean professors completed the instruction in conversation, writing, technical English and grammar during the month of November.

After the intensive English course was completed, a ten day training session was conducted at Southern Technical Institute. The curriculum studied included work in the fields of basic electronics, amplifier analysis, construction materials, architectural engineering technology and computer systems technology. Several interesting trips were conducted which related to the subjects studied.

In order to relate the technical training to practical application, a one day training session was conducted on boiler technology. This study included such areas as maintenance and operational techniques, parameter and efficiency change, boiler control system, burner, boiler heat recovery and basic boiler water recovery.

So that the Korean professors could obtain some special knowledge in their major discipline, visits were made to the College of Architecture and several different schools. These were the School of Mechanical Engineering, the School of Electrical Engineering and the School of Information and Computer Science. Information on different course were obtained on these visits.

To encourage additional specialization in each professors discipline, research was conducted at the Georgia Institute of Technology library.

At several times during the month of November, plant trips were made to different industries in Georgia and a typical liberal arts college. The plants visited were Galaxy Carpet Mills, Rockwell International and Western Electric. A special trip was made to West Georgia College where a lecture and demonstration was given on the principles of physics. These trips were informative and gave the Korean professors a look at American industry and a liberal arts college.

MD/jd

A-3677

Georgia Institute of Technology

A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA

ATLANTA, GEORGIA 30332

INDUSTRIAL EDUCATION DEPARTMENT

IN COOPERATION WITH
STATE DEPARTMENT OF EDUCATION
DIVISION OF VOCATIONAL SERVICES

Febraury 1, 1984

TO: OCA Reports Coordinator, PPC Campus

FROM: Dr. H. Ben Roberson, Director
Department, Project Director

McCamie Davis, Research Associate II, Project Coordinator

SUBJECT: Project A-3677, Deliverable No. 4, Letter for Time Period 12/1/83 to 12/31/83

The December portion of the Korean professors training program consisted of the following:

- The training at Georgia State University
- The study of robotics
- The study of information resources
- The study of electrical energy management
- The training at the University of Georgia
- The training at Georgia Institute of Technology library
- The trips made during the month of December

The third month of the Korean professors training program was started with five days of training at Georgia State University. The emphasis was placed on high technology. Other areas studied included competency based education, components of competency based education and high technology curriculum infusion.

As an extension of the high technology, a one day session on robotics was conducted by the Technology Application Laboratory. This class discussed the use of robotics in many industrial applications; with a field trip being made to the Georgia Tech robotics center to observe, first hand, the application of robotics in an industrial environment.

In order for the Korean professors to become familiar with different databases, a class was conducted in information resources. A total of ten different dialog information retrieval services were studied. The file name for each database is as follows:

- ERIC
- AIM/ARM
- NICEM
- COMPRNDEX
- INSPEC
- METADEX
- BRI
- ISD
- MICROCOMPUTER INDEX
- CA SEARCH

After studying electrical course work at Southern Technical Institute, a class was conducted which studied energy efficient lamps, high efficiency motors and how to calculate savings for reducing electrical billing demand. Each of the above topics were discussed in great detail.

During the month of December, the University of Georgia conducted several days of vocational education training. This segment consisted of planning the curriculum, planning for teaching, organizing and controlling the instructional facilities and providing for classroom management.

To encourage additional specialization in each professors major discipline, research was conducted at the Georgia Institute of Technology library.

In order to correlate the training during the month of December, several trips were planned for the Korean professors. These visits included the World Engineering Congress, DeKalb county water and sewer treatment plant and a visit to DeVry Tech which is an electronic college offering courses in computer technology.

MD/jd

Project A-3677

KOREAN PROFESSORS TRAINING PROGRAM

Prepared for
Gyeong-Gi Technical Open College

by
Dr. H. Ben Roberson, Project Director
McCamie F. Davis, Project Coordinator

Engineering Experiment Station
GEORGIA INSTITUTE OF TECHNOLOGY
Atlanta, Georgia
February 29, 1984

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Figures

Tables

Acknowledgements

Short-term training sessions are often very dependent on the dedication and hard work of individuals willing to go beyond the ordinary requirements of their responsibilities. Such was the case with the training presented in the fall of 1983 at Georgia Institute of Technology for thirty-nine professors from vocational and technical schools in Korea.

Dr. Kewon Kang, Mr. Langduck Ahn and Dr. Ho-Kun Kim were active before and throughout the training program. The effort of Dr. Kim and Dr. Kang in expressing their needs and defining the goals of the training program contributed to its success.

Mr. Pil-Soun Chang, the team leader, Mr. Young-Chang Yu and Mr. Han-Ho Park were very helpful in making the program successful. Mr. Pil-Soun Chang, Chairman of Department of School Affairs, Mr. Young-Chang Yu, Junior College Administration Division Ministry of Education, and Mr. Han-Ho Park, Researcher, Gyeong-Gi Technical Open College served in a professional manner to achieve the best possible training for their fellow engineers and professors.

Members of Georgia's University System were also very helpful. Dr. James R. Stevenson, Assistant to the President, of Georgia Institute of Technology expressed his good wishes for the success of the professors stay in meeting with the group.

Dr. Byung R. Kim, Assistant Professor of Civil Engineering, and Mr. Moonik Chang, Director of Greater Atlanta Korean Association, were helpful in arranging and coordinating the translators.

The authors are especially indebted to the Industrial Education Departments' personnel whose efforts made the training program a success. Also to others who contributed to this fall's program, the training staff extends its sincere appreciation.

Korean Professors Training Program

I. Introduction

The Ministry of Education of the Republic of Korea has established a program to increase instruction in modern industrial methods. This program was centered around the latest teaching methods in engineering technology and vocational education. Through access to modern engineering curriculum and vocational education curriculum, the participants were able to obtain timely information for infusion into their classroom teaching.

Georgia Institute of Technology (GIT) was contacted by Dr. Kewon Kang and Mr. Langduck Ahn in order to determine how the professors training program could be conducted. After review of Gyeong-Gi Technical Open College requirements, it was suggested that GIT could provide the necessary training. These involved such areas as literature research, industrial application, instruction, both through GIT's own facilities and personnel and through arrangements with other organizations.

All of the thirty-nine Korean professors received the same training program. (See Appendix A-1 listing of professors.) As there were several areas of specialization represented by the professors, time was allocated for professional research at

Georgia Institute of Technology library. Furthermore, the professors visited the school of his interest to obtain information on course preparation and the books used for different classes.

The training sessions were conducted as scheduled; beginning with the arrival of the thirty-nine professors on October 17, 1983 and ending with their departure on January 20, 1984. A welcome and orientation unit was conducted on October 18, 1983, as outlined in Table 1.

(1) Orientation and English language
(2) Technology application in the eighty's
(3) Boiler technology, electrical energy management and waste heat recovery
(4) Competency based education and high technology trend in occupational education
(5) Robotics
(6) Information resources
(7) Vocational Education in Georgia
(8) Biomass
(9) Audio-Visual

TABLE I

WELCOME AND ORIENTATION

Room 207, A. French Building
October 18, 1983

8:00 a.m. - 8:45 a.m.	Continental Breakfast
8:45 a.m. - 9:30 a.m.	Welcome Dr. H. Ben Roberson, Director Industrial Education Department Georgia Institute of Technology Dr. James R. Stevenson Assistant to the President Georgia Institute of Technology Hak Won Song Consul General Republic of Korea
9:30 a.m. - 10:45 a.m.	English Pre-Test
10:45 a.m. - 11:00 a.m.	Break
11:00 a.m. - 12:00 noon	Crime Prevention Information Corp. Martha Jenkins Crime Prevention Officer Georgia Tech Police Department
12:00 noon - 1:00 p.m.	Lunch
1:00 p.m. - 2:00 p.m.	Insurance Forms
2:00 p.m. - 2:30 p.m.	Distribute Training Packets
2:30 p.m. - 3:00 p.m.	Review Training Packets

II. The Training Session

During the fourteen weeks of instruction given to each trainee, a variety of educational experiences were presented. First, emphasis was placed on direct exposure to engineering technology which could be infused into existing curriculum. Second, time was allocated for professional research which featured special direct use of Georgia Institute of Technology library. Then, there were units studied on automation in industry and on vocational education as practiced in Georgia.

Nine units were presented during the fourteen weeks of the training session. The length of each training segment varied. (See Appendix B-1 for more detail on schedule and course content.) Each part of the training program is a follows:

A. Orientation/English. Orientation acquainted the trainees with Atlanta, the Emory area, the Korean community, the Georgia Tech Campus, the grocery store and the bus system. Also, during this time, an explanation of the training was discussed to make the training period more useful. English training was directed toward instruction in conversational English, technical English and grammar. (See Appendix B-2 for English content.)

EES

Energy Tips

Energy management suggestions from the Industrial Energy Extension Service
a joint service of the Georgia Office of Energy Resources and Georgia Tech's Engineering Experiment Station.

TABLE II
ENERGY EFFICIENT FLUORESCENT LAMPS

CONVERT TO ENERGY EFFICIENT FLUORESCENT LAMPS

One attractive alternative for energy conservation is replacing existing fluorescent lamps with the new lower wattage energy efficient ones. Generally the new lamps are of lower light output and the light level will be reduced by about 3% to 5%. However, the wattage reduction will range from about 15% to 20%.

CONDENSED LAMP DATA

LAMP	NOMINAL WATTS	INITIAL LUMENS	NOMINAL LENGTH	APPROX. HOURS LIFE
Standard F40CW	40	3150	48"	20,000+
Energy Efficient Lamp	34-35	2800-3050	48"	20,000+
Standard F96T12	75	6300	96"	12,000+
Energy Efficient Lamp	60	5400-6000	96"	12,000+
Standard F96T12/CW/HO	110	9200	96"	12,000+
Energy Efficient Lamp	95-98	9100	96"	12,000+

EXAMPLE

An industrial area of 20,000 sq. ft. is presently lighted to 85 footcandles (fc) with 75 watt standard fluorescent lamps (F96T12/CW). The number of two-lamp fixtures is 300. Mounting height is 20 ft. Replacing these lamps with 60-watt energy efficient ones would yield the following savings:

Annual energy savings:	9KW x 10 hrs/day x 250 days/yr	= 22,500 KWH
Annual savings in $:	22,500 KWH @ $0.05	= $1,125
Total initial cost — (lamps and labor):	$2,100 + $1,500	= $3,600
Simple payback period:	$3,600 / 1125	= 3.2 years

SUGGESTED ACTION

The following steps, in order, are suggested:

1. Determine if the slightly lower light level is acceptable. In most instances this is acceptable. If not, an improved maintenance program (i.e. washing fixtures more frequently) will boost the level with reduced wattage.
2. Immediately replace lamps operating beyond their efficient life or burned out with the more energy efficient ones.
3. Survey the existing lamps and fixtures and justify the replacement of as many of the standard lamps as possible with the energy efficient ones, based on economics and available financial resources.

SOURCE: GA TECH EES

EES Energy Tips

Energy management suggestions from the Industrial Energy Extension Service
a joint service of the Georgia Office of Energy Resources and Georgia Tech's Engineering Experiment Station.

TABLE III
CALCULATION OF DIFFERENT LIGHT SOURCES

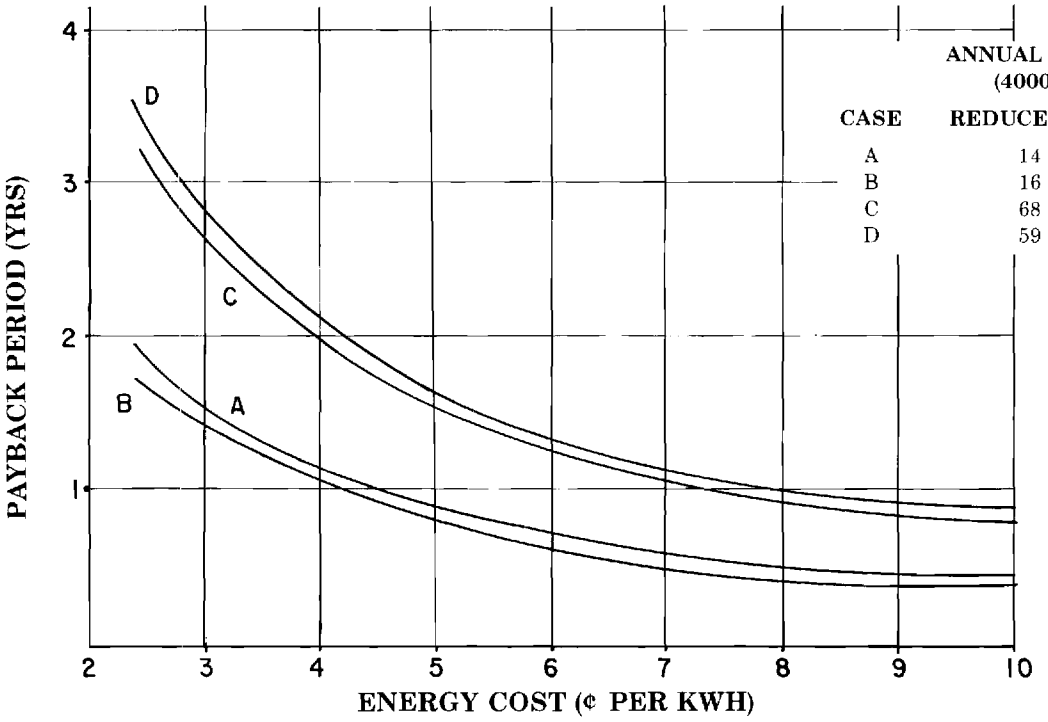
CONVERT TO MORE EFFICIENT LIGHT SOURCES

There is excellent savings potential in most plants by converting present lighting systems to more efficient light sources. A condensed comparison of light sources is shown below.

Light Source	Light (lumens) per watt
—Incandescent	17 - 22
—Mercury	56 - 63
—Fluorescent	67 - 83
—Metal Halide	80 - 115
—High Pressure Sodium	80 - 140

EXAMPLES

Consider a 10,000 square foot (86'x 116') production area with fixtures mounted 20 feet above the floor. Also, assume the light level of 50 footcandles (fc) to be maintained. The graph and chart below can be used to evaluate possible savings with the different light sources.



ANNUAL ENERGY SAVINGS
(4000 hrs., 4¢/KWH)

CASE	REDUCED KW	KWH	$
A	14	56,000	$ 2,800
B	16	64,000	$ 3,200
C	68	272,000	$13,600
D	59	236,000	$11,800

CASE DESCRIPTIONS

A. Replacing 400-watt mercury vapor fixtures with one-half the number of 400-watt high pressure sodium fixtures.
B. Replacing 1000-watt mercury vapor fixtures with 400-watt high pressure sodium fixtures.
C. Replacing 750-watt incandescent fixtures with one-half the number of 250-watt high pressure sodium fixtures.
D. Replacing 500-watt incandescent fixtures with 2-lamp energy efficient fluorescent (425-m.a.) fixtures.

While the attractiveness of these payback periods are obvious, it must be noted that other factors must be considered. In particular, employees involved in certain types of tasks will find that the light coloration from some of the more efficient sources (particularly high pressure sodium) will be objectionable, so that use of the most desirable economic option may not be possible. Consultation with manufacturers and lighting consultants will often prove helpful.

SOURCE: GA TECH EES

Energy Tips

Energy management suggestions from the Industrial Energy Extension Service
a joint service of the Georgia Office of Energy Resources and Georgia Tech's Engineering Experiment Station.

TABLE IV
ENERGY SAVINGS WHEN MOVING MOTORS FROM AIR CONDITIONED SPACES ENERGY TIP NO. 30

MOVE ELECTRIC MOTORS FROM CONDITIONED SPACES

Electric motors and equipment operated by them give off heat. If they are located in an air conditioned or refrigerated space they contribute to the cooling load. If it is possible to move this equipment to an unconditioned area, energy savings would result since there would be a lower load on the air conditioner or refrigeration unit.

EXAMPLE

A vacuum pump driven by a 10 HP motor that provides vacuum for a packing machine is located in a refrigerated room. The refrigeration load created by this equipment is found from the table below.

Refrigeration load = 30,000 BTU/hr

With the vacuum pump working 50% of the time and a plant operation schedule of 8 hrs/day, 5 days/week, 50 weeks/yr,

Annual energy load = 0.5 x 30,000 BTU/hr x 8 hrs/day x 5 days week x 50 weeks/yr = 30×10^6 BTU/yr

With a refrigeration unit coefficient of performance of 2.5, energy reduction to refrigeration unit

$= (30 \times 10^6 \text{ BTU/yr} \times 2.928 \times 10^{-4} \text{ KWH/BTU}) \div 2.5 = 3513.6$ KWH/yr

If the cost of electric power is \$0.05/KWH, annual savings

= 3513.6 KWH/yr x \$0.05/KWH = \$175.68 per year.

Heat Gain from Electric Motors *(Continuous Operation)*

Nameplate or Bake Horsepower	Full Load Motor Efficiency Percent	*Location of Equipment with Respect to Conditioned Space or Air Stream**		
		Motor In-Driven Machines in $\frac{HP \times 2545}{\% Eff}$	Motor Out-Driven Machine in $HP \times 2545$	Motor In-Driven Machine out $\frac{HP \times 2545 (1-\% Eff)}{\% = Eff}$
		Btu per Hour		
1/20	40	320	130	190
1/12	49	430	210	220
1/8	55	580	320	260
1/6	60	710	430	280
1/4	64	1,000	640	360
1/3	66	1,290	850	440
1/2	70	1,820	1,280	540
3/4	72	2,680	1,930	750
1	79	3,220	2,540	680
1-1/2	80	4,770	3,820	950
2	80	6,380	5,100	1,280
3	81	9,450	7,650	1,800
5	82	15,600	12,800	2,800
7-1/2	85	22,500	19,100	3,400
10	85	30,000	25,500	4,500
15	86	44,500	38,200	6,300
20	87	58,500	51,000	7,500
25	88	72,400	63,600	8,800
30	89	85,800	76,400	9,400
40	89	115,000	102,000	13,000
50	89	143,000	127,000	16,000
60	89	172,000	153,000	19,000
75	90	212,000	191,000	21,000
100	90	284,000	255,000	29,000
125	90	354,000	318,000	36,000
150	91	420,000	382,000	38,000
200	91	560,000	510,000	50,000
250	91	700,000	636,000	64,000

**For a fan or pump in an air conditioned space, exhausting air, and pumping fluid to outside of space, use values in last column.*

SOURCE: GA TECH EES

B. Technology Application in the eighty's. The curriculum studied included work in the fields of basic electronics, amplifier analysis, construction materials, architectural engineering technology and computer system technology. Several interesting trips were conducted which related to the subjects studied. (See Appendix B-3 for engineering technology in the 80's.)

C. Boiler Technology, Electrical Energy Management and Waste Heat Recovery. The boiler technology session included such areas as maintenance and operational techniques, parameter and efficiency change, boiler central system, burner, boiler heat recovery and basic water recovery. (See Appendix B-4 on boiler technology.) The electrical energy management studied energy efficient lamps, which is represented in Table II, and how to calculate annual energy savings on different light sources. This method of calculation is shown in Table III. Another area of interest was the study of moving electric motors to non-air conditioned locations, which resulted in a cost savings as shown in Table IV. The waste heat recovery sessions discussed the following:

+ Solution of combustion problem (energy and mass balance)
+ Determine dewpoint of products
+ Evaluate available hardware options
    i. Plate type heat exchange
    ii. Rotary regenerator
    iii. Shell and tube heat exchange

(See Appendix B-5 on waste heat recovery.)

D. Competency Based Education and High Technology Trends in Occupational Education. The overview of the program is shown in Table V. The competency based education consisted of three major areas. These were the world of work translated into the world of vocational education, student selection and personnel management, and program. (See Appendix B-6 on competency based curriculum.) The second phase of training was divided into four categories. These were an overview of high technology growth and dispersal, assessing the high technology world role, building the curriculum and evaluating curriculum outcomes. (See Appendix B-7 for high technology curriculum.)

TABLE V

OVERVIEW OF COMPETENCY BASED EDUCATION
AND HIGH TECHNOLOGY

PROGRAM OVERVIEW

December 5, 1983	9:00 - 12:00	Welcome-Orientation-Overview
	1:00 - 4:00	Competency Based Education
December 6, 1983	9:00 - 3:30	Compenents of Competency Based Education
December 7, 1983	8:30 - 4:00	Field Trip - Pickens Tech
December 8, 1983	9:00 - 12:00	High Technology in Occupation Education
	1:00 - 4:00	Field Trip - Robotics
December 9, 1983	9:00 - 12:00	High-Technology-Curriculum Infusion
	1:00 - 4:00	Summary-Evaluation-Awards

E. Robotics. The robotic session discussed three units of interest. These were what is a robot, what are applications and what are new developments. In order to demonstrate the use of robotics, a field trip was conducted to the Georgia Tech robotic center to observe, first hand, the use of robotics in an industrial environment. At the request of the participants, a listing of the latest books on robotics was made available to each professor. (See Appendix B-8 for publication list on robotics.)

F. Information Resources. In order for the Korean professors to become familiar with different data bases, a class was conducted on information resources. (See Appendix B-9 on computer user's guide.) A total of ten different dialog information retrieval services were studied. (See Appendix B-10 on dialog data bases.) The file name for each data base is as follows:

ERIC	METADEX
AIM/ARM	BRI
NICEM	ISD
COMPRNDEX	MICROCOMPUTER INDEX
INSPEC	CA SEARCH

G. Vocational Education in Georgia. The vocational training consisted of planning the curriculum, planning for teaching, organizing and controlling the instructional facilities and providing for classroom management. (See Appendix B-11 on managing curriculum and instruction.)

H. Biomass. The one day session on biomass was divided into seven sections. These were overview, basic cycles, load profile, feasibility studies, thermochemical gasification, biochemical gasification and case studies.

The overview gave a brief history of cogeneration and the industries best served by the process.

The basic cycle session discussed the three types of cycles. These were Rankine cycle, Brayton cycle and the Storling cycle. Cogeneration can be accomplished using any of the basic thermodynamic cycles, although the Rankine cycle is found in most current applications.

The load profile study deals with matching the generated energy, usually electricity and steam, to the plant needs.

The feasibility module discussed guidelines which are helpful when undertaking this study. These are as follows:

(a) the size of the process heat load, (b) the size of the electrical load, (c) the dynamics of the heat and electrical load, (d) the effects of load shedding that could be caused by system emergencies and (e) the stability and long range prospects of the particular industrial process.

The session on thermochemical gasification discussed several points of interest. These were gasification theory, gasifier cost, gasifier commercialization and other design problems pertaining to the thermochemical gasification process.

The biochemical gasification discussed such topics as basic process, biochemical biogas characteristics and biochemical biogas production.

Several case studies were presented that showed practical application for cogeneration.

I. Audio-Visual. An overview of this unit is shown in Table VI. The Audio-Visual segment of the training was divided into six areas. These were understanding the need for effective audio-visuals; understanding the principles of effective audio-visuals; knowing how to use basic audio-visual equipment; knowing the basic process of

TABLE VI

EFFECTIVE AUDIO-VISUAL TECHNIQUES FOR THE CLASSROOM

INSTRUCTOR: KEITH R. NELMS

SCHEDULE:

DAY 1 WEDNESDAY JANUARY 11, 1984

9:00 - 11:00	MORNING CLASS
11:00 - 12:30	LUNCH
12:30 - 4:00	AFTERNOON CLASS

DAY 2 THURSDAY JANUARY 12, 1984

9:00 - 11:00	MORNING CLASS
11:00 - 12:30	LUNCH
12:30 - 1:30	AFTERNOON CLASS
1:30 - 2:30	PROJECT RESEARCH
2:30 - 4:00	PROJECT SESSION 1

DAY 3 FRIDAY JANUARY 13, 1984

9:00 - 9:30	MORNING CLASS
9:30 - 11:00	PROJECT SESSION 2
11:00 - 12:30	LUNCH
12:30 - 2:00	PROJECT SESSION 3
2:00 - 2:15	BREAK
2:15 - 2:30	AFTERNOON CLASS
2:30 - 4:00	PROJECT SESSION 4

DAY 4 MONDAY JANUARY 16, 1984

9:00 - 9:30	MORNING CLASS
9:30 - 11:00	PROJECT SESSION 5
11:00 - 12:30	LUNCH
12:30 - 2:00	PROJECT SESSION 6
2:00 - 2:15	BREAK
2:15 - 2:30	AFTERNOON CLASS
2:30 - 4:00	PROJECT SESSION 7

DAY 5 TUESDAY JANUARY 17, 1984

9:00 - 11:00	MORNING CLASS
11:00 - 12:30	LUNCH
12:30 - 4:00	AFTERNOON CLASS

developing effective audio-visuals and gaining experience in preparing aduio-visuals. After learning how to prepare an audio-visual, Mr. Pil-Soun Chang made a recording for their slide presentation. (See Appendix B-12, which shows the audio-visual script format.)

The two techniques of instruction used for these units were lecture and direct participation. All phases of the training used lecture as the primary source of instruction. Direct participation was the chosen technique employed with the English unit and the audio-visual unit.

Course instructors were drawn from Georgia Tech's Modern Language Department and the Technical Application Laboratory. Other organizations who participated were the University of Georgia, Southern Technical Institute and Georgia State University. In addition, many industrial facilities were made available for plant tours.

Translation services were supplied through the Georgia section of the Korean Scientist and Engineers Association. This organization provided a wide range of expertise that contributed to meeting specific requirements within the training program.

Obviously, with such a combination of resources, a heavy burden was placed on coordination. The individual instructors and their organizations were highly cooperative with one another and with the project coordinator, easing the process of transportation, scheduling and other logistical arrangements. To supply continuing assistance during the program, a positive monitoring activity was managed by the Industrial Education Department.

III. Program Evaluation

Program evaluation was stressed as a method to learn from this session and to improve future training. Through the weeks of instructional activity, informal observation of progress by the group was maintained. The instructors were asked to advise if any problems existed during their training session and to suggest means of improvement.

In addition, informal observations were sought from trainees themselves. These suggestions were incorporated into the current training program. These included use of the Georgia Institute of Technology library and a visit to the University of Georgia Campus.

Formal evaluations were made, as well. (See Appendix C-1 for evaluation sheets.) Each training activity was graded for content and level of instruction. Also an indication was made of whether the activity should be included in future training sessions or not. In addition, space was reserved for comments and recommendations.

Each trainee completed an evaluation sheet; which were numerically summarized by adding grades from the thirty-seven evaluation forms. The summary in Figure 1 permits a rapid analysis of the instructional units.

EVALUATION SHEET
for
TECHNICAL TRAINING FOR KOREAN TEACHERS

- Please assist by marking in the proper space your evaluation of the activities presented in this training program.

- Please mark under one of the headings showing letter grades ranging from A through E. A = best; F = worst. Please mark Yes or No in the Future Training section if you desire similar training.

PROGRAM	GRADE										FUTURE TRAINING	
	CONTENTS					INSTRUCTION					YES	NO
INSTRUCTION:	A	B	C	D	E	A	B	C	D	E		
Orientation	17	18	2			16	19	2			37	
English Language	16	13	7	1		17	15	4	1		37	
Automation/Robotics	23	10	4			20	14	2	1		37	
Information Resources	15	16	6			16	17	4			36	1
Engineering Technology/80's (STI)	8	18	9	2		9	18	9	1		32	5
Boiler Technology	6	6	16	9		5	11	14	7		21	16
Electrical Energy Management	4	13	16	3	1	5	13	16	2	1	23	14
Waste Heat Recovery	7	9	15	6		7	14	11	4	1	18	19
Audio/Visual	34	2	1			29	7	1			36	1
High-Tech in Occupational Ed. (GSU)	27	9	1			29	7	1			37	
Vocational Technology (UGA)	13	14	10			13	14	10			36	1
Biomass, Wood, Coal Gasification	4	9	18	6		6	8	18	5		17	20
TRIPS AND TOURS:												
Atlanta Tour	17	18	2			18	16	3			37	
Galaxy Carpet	8	9	13	7		9	12	13	3		22	15
Rockwell International	26	9	2			30	5	2			37	
Western Electric	25	9	3			24	9	4			36	1
West Georgia College	13	11	11	2		12	12	7	6		30	7
World Energy Congress	9	14	13	1		9	15	11	2		29	8
Dekalb Water Treatment	14	9	11	3		15	12	8	2		30	7
University of Georgia	12	10	12	2	1	12	12	11	2		32	5
SUBTOTALS	298	226	172	42	2	301	250	151	36	2	620	120
PERCENT	40.3	30.5	23.3	5.6	.3	40.0	33.8	20.3	5.0	.2	83.8	16.2
FACILITIES:												
Emory Pines	25	12				25	11	1			36	1
Graduation	11	21	5			15	20	2			37	
Translators	9	11	10	7		8	12	13	4		33	4
ARA Bus Service	16	17	4			14	20	3			37	
Industrial Ed. Support Personnel	26	8	3			27	9	1			37	
SUBTOTALS	87	69	22	7		89	72	20	4		180	5
PERCENT	47.03	37.3	11.89	3.78		48.1	36.9	10.8	2.2		97.3	2.7

Figure 2 shows by training unit, the percentage of A's, B's, C's, D's and E's given for course content and instruction. The same type of information is given in Figure 3 and Figure 4 for plant trips and facilities, respectively. As is true in all training, there was some indication that several areas of the training program should not be included in future training. Therefore, a more careful selection of course offerings will be made with additional training programs.

Similarly, facilities and arrangements for the program were given good marks. Emory Pines received an A rating. Even though this was located some distance from the Georgia Tech campus. The arrangements were most comfortable and provided some access to shopping and recreation. Therefore, living facilities similar to these should be used when other training programs are planned.

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IV. Conclusion

The fall training session was highly successful in terms of instruction, course content and trainee satisfaction. This is not to say that all aspects of the program were equally strong, nor that there were no difficulties. However, in a relatively short period in which many organizations contributed, a generally high quality program was prepared, managed and presented for the benefit of the trainees.

Georgia Institute of Technology's technical and academic resources, in conjunction with those of other participating organizations, proved appropriate for the training.

It is Georgia Tech's intention in future activities to provide an even better training program. Experience gained in this session and guidance from the evaluations will be used to strengthen some training units. Coordination and arrangements will be modified to assure the best possible use of available training resources.

V. Recommendations

There are six major recommendations for future training sessions of the type conducted this fall. First, arrangements for instructors, facilities, housing, transportation, field trips and other logistics can be improved if early agreement can be reached on future training. This is particularly true when academic scheduling must be considered. Multi-year contracts are recommended; as this would provide better planned training programs.

Second, information on prospective students can help to design courses so that they build on existing interests and capabilities. It is recommended that biographical data on each trainee be sent well in advance of the training session. This information should include an academic record, summary of experience and current area of interest.

Even though a master schedule was developed for the training program, the third recommendation is to give a detailed weekly syballus on each Friday where the professors can be familiar with instructional materials to be taught the following week.

The fourth recommendation involves training the lecturer in the use of an interpreter. This training would consist of the professor meeting with the translators prior to the arrival of

the Korean trainees and learning how to work with an interpreter in a class room environment. The proper use of translators will insure a greater success of the training program.

The fifth recommendation is to devote one or two days to overcoming cultural shock. Moreover, emphasis should be placed on kinds of American food, table setting and social encounters. This training would ease the transition from the Korean culture to the American culture.

Due to money constraints, this program's format was different from the previous one conducted at Georgia Institute of Technology. The sixth recommendation is to inform the professors, before leaving Korea, what the contract provides for in their training program so they will have a positive training experience.

More details on the activities and results of this fall's training are presented in the rest of this report. Sections that follow describe the structure of the training program its content and schedule, the training resources used at GIT and techniques of instruction. Both formal and informal evaluations are presented and discussed to indicate directions for future training. The concluding section is a summation of lessons learned and of recommended future activities.

APPENDIX A-1

LIST OF KOREAN PROFESSORS

APPENDIX A-1

LIST OF KOREAN PROFESSORS

NO.	NAME	COLLEGE DATE & PLACE OF BIRTH	MAJORING
1	Soo-Chang Park	Kyungwon Technical Junior College January 9, 1938 Kang-won	Electrical eng.
2	Pil-Soun Chung	Hong-Ik Technical Junior College September 11, 1928 Nonsan	Electrical eng.
3	Kyo-Won Lee	Yuhan Technical Junior College September 14, 1941 Seoul	Mechanical eng.
4	Ki-Sung Kim	Induk Institute of Design November 23, 1942 Seoul	Mechanical eng.
5	Hong-Il An	Inha Technical Junior College September 15, 1942 Incheon	Architectural eng.
6	Jong-Chul Kim	Kyung-nam Technical Junior College March 19, 1943 Chuncheon	Electronic Comm.
7	Hwa-Yon Jeong	Cheon-an Technical Junior College August 15, 1942 Jeonbuk	Mechanical eng.
8	Kyong-Whan Park	Incheon Technical Junior College February 27, 1944 Seoul	Chemical eng.
9	Jong-Hyeok Lee	Dong-eui Technical Junior College May 2, 1955 Kyeong-Buk	Electronic eng.
10	Hong-Soon Hwang	Daejeon Technical Junior College September 19, 1942 Seoul	Architectural eng.
11	Won-Il Jung	Daejeon Technical Junior College July 13, 1941 Chung-nam	Electrical eng.
12	Jung-Soo Park	National Railroad Junior College March 7, 1935 Gyeong-gi	Electrical eng.
13	Jong-Soo Kim	Busan Technical Junior College September 15, 1941 Busan	Civil eng.
14	Young-Geun Ok	Busan Technical Junior College December 10, 1946 Busan	Chemical eng.
15	Seh-Young Oh	Daehun Technical Junior College January 9, 1948 Incheon	Computer
16	Lak-Sun An	Chung-ju Technical Junior College June 29, 1940 Chenog-ju	Mechanical eng.

17	Ha-Young Kim	Chung-ju Technical Junior College March 3, 1938 Cheong-ju	Mechanical eng.
18	Chung-Ho Lee	Chung-ju Technical Junior College April 27, 1944 Chung-ju	Electrical eng.
19	Shin-Oh Ryu	Samecheok Technical Junior College April 28, 1940 Kang-won	Mechanical eng.
20	Young-Chang Yu	The Ministry of Education May 9, 1940 Seoul	Vocational Edu.
21	Young-Do Lim	Dong-won Technical Junior College September 20, 1949 Busan	Electronic eng..
22	Seung-Ho Lee	Dong-Yang Technical Junior College September 5, 1939 Gyeong-gi	Electronic eng.
23	Chang-Yeob Bang	Suwon Technical Junior College November 20, 1940 Jeon-nam	Electrical eng.
24	Jong-Heon Park	Samcheok Technical Junior College June 2, 1948 Kang-won	Chemical eng.
25	Sung-Dae Cho	Daejeon Technical Junior College July 25, 1935 Chung-nam	Chemical eng.
26	Chun-Jung Kim	Yeung-nam Technical Junior College December 1, 1947 Kyeong-buk	Mechanical eng.
27	Hyung-Yun Kim	Chosun Univ. Tech. Junior College May 15, 1941 Kwang-ju	Chemical eng.
28	Hong-Young Moon	Sung-ji Technical Junior College May 23, 1944 Busan	Chemical eng.
29	Kwang-Chi Lee	Anyang Technical Junior College April 17, 1942 Seoul	Electronic eng.
30	Ro-Sam Park	Kyeong-buk Technical Junior College June 13, 1941 Daegu	Civil eng.
31	Jai-Hyeon Song	Ulsan Technical Junior College January 14, 1938 Ulsan	Computer
32	Won Lee	Daegu Technical Junior College July 23, 1953 Kyeong-buk	Computer
33	Chai-Kwan NamKoong	Gyeong-Gi Technical Open College May 27, 1944 Seoul	Mechanical Draft.
34	Kyo-Sung Lee	Daeyu Technical Junior College February 13, 1946 Kyeong-buk	Mechanical eng.

35	Kyung-Koo Kim	Osan Technical Junior College January 14, 1945 Seoul	Mechanical eng.
36	In-Sik Oh	Joong-kyeong Tech. Junior College March 8, 1947 Chung-buk	Architectural eng.
37	Si-Heon Kim	Young-jin Vocation. Junior College September 1, 1947 Kyeong-buk	Architectural eng.
38	Han-Ho Park	Technical Ed. Research Institute May 7, 1955 Seoul	Metallurgical eng.
39	Cha-Hurn Bae	Busan Technical Junior College August 30, 1947 Busan	Metallurgical eng.
40	Dal-Soon Chang		

APPENDIX B-1

SCHEDULE AND COURSE CONTENT

OCTOBER 1983 OCTOBRE

SUNDAY DIMANCHE	MONDAY LUNDI	TUESDAY MARDI	WEDNESDAY MERCREDI	THURSDAY JEUDI	FRIDAY VENDREDI	SATURDAY SAMEDI
						1
2	3	4	5	6	7	8
9	THANKSGIVING DAY ACTION DE GRÂCES 10	11	12	13	14	15
16	ARRIVAL 17	WELCOME DAVIS/ ROBERSON 18	ORIENTATION Davis/Roberson ← ENGLISH LANGUAGE → ML/STAFF 19	ML/STAFF 20	TOUR OF ATLANTA 21	22
23/30	← ENGLISH LANGUAGE → 24 ML/STAFF / HALLOWEEN 31	ML/STAFF 25	ML/STAFF 26	ML/STAFF 27	INFORMATION RESOURCES LIBRARY STAFF 28	29

ENGLISH LANGUAGE
M/L STAFF

NOVEMBER 1983 NOVEMBRE

SUNDAY DIMANCHE	MONDAY LUNDI	TUESDAY MARDI	WEDNESDAY MERCREDI	THURSDAY JEUDI	FRIDAY VENDREDI	SATURDAY SAMEDI
		← ENGLISH		LANGUAGE →	VISIT SCHOOLS OF MAJOR INTEREST	
		ML/STAFF 1	ML/STAFF 2	ML/STAFF 3	4	5
	← ENGINEERING TECHNOLOGY/80's →				REMEMBRANCE DAY JOUR DU SOUVENIR PLANT VISIT	
6	STI/STAFF 7	STI/STAFF 8	STI/STAFF 9	STI/STAFF 10	11	12
	← ENGINEERING TECHNOLOGY/80's →				PLANT VISIT	
13	STI/STAFF 14	STI/STAFF 15	STI/STAFF 16	STI/STAFF 17	18	19
	ENGINEERING TECHNOLOGY/80's		COMMUNITY COLLEGE	← HOLIDAY →		
20	STI/STAFF 21	STI/STAFF 22	SOUTHWIRE DEMAYO 23	24	25	26
	HI-TECH VOCATIONAL SCHOOL	BOILER TECHNOLOGY	PLANT VISIT			
27	28	TAL/STAFF JACKSON 29	30			

DECEMBER 1983 DÉCEMBRE

SUNDAY DIMANCHE	MONDAY LUNDI	TUESDAY MARDI	WEDNESDAY MERCREDI	THURSDAY JEUDI	FRIDAY VENDREDI	SATURDAY SAMEDI
				HANUKKAH TECHNOLOGY APPLICATIONS TAL/STAFF 1	PLANT VISIT 2	3
4	COMPETENCY BASED EDUCATION GSU/STAFF 5	STUDENT SELECTION GSU/STAFF 6	PROGRAM EVALUATION GSU/STAFF 7	HIGH-TECH IN OCCUPATIONAL EDUCATION GSU/STAFF 8	VOCATIONAL SCHOOL VISIT GSU/STAFF 9	10
11	TECHNOLOGY APPLICATIONS TAL/STAFF 12	INFORMATION RESOURCES JOHNSON 13	TECHNOLOGY APPLICATIONS TAL/STAFF 14	ELECTRICAL ENERGY MANAGEMENT TAL/STAFF JACKSON 15	PLANT VISIT 16	17
18	PLANNING THE CURRICULUM SCOTT/ O'KELLY 19	PLANNING THE CURRICULUM/ PLANNING FOR TEACHING SCOTT 20	PLANNING FOR TEACHING SCOTT 21	PLANT VISIT 22	ORGANIZING AND CONTROLLING THE FACILITIES KAHLER 23	24
CHRISTMAS DAY NOEL 25	← 26	PROFESSIONAL 27	28	RESEARCH → 29	30	31

JANUARY 1984 JANVIER

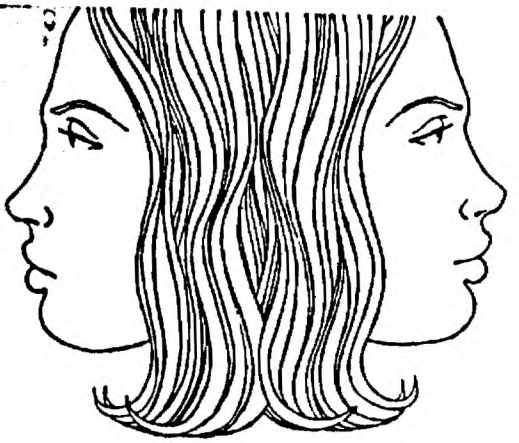
SUNDAY / DIMANCHE	MONDAY / LUNDI	TUESDAY / MARDI	WEDNESDAY / MERCREDI	THURSDAY / JEUDI	FRIDAY / VENDREDI	SATURDAY / SAMEDI
1	HOLIDAY 2	ORGANIZING AND CONTROLLING THE INSTRUCTIONAL FACILITIES ROSENBROOK/ KAHLER 3	PLANT VISIT 4	PROVIDING FOR CLASSROOM MANAGEMENT SARKESS/ HILL 5	PROVIDING FOR CLASSROOM MANAGEMENT SARKESS/ HILL 6	7
8	PLANT VISIT 9	WASTE HEAT RECOVERY TAL/STAFF JACKSON 10	INTRODUCTION TO AUDIO-VISUAL CONCEPTS AND EQUIPMENT NELMS 11	ASCENSION DAY / JOUR DE L'ASCENSION APPLIED AUDIO-VISUAL TECHNIQUES NELMS 12	PROJECT LABORATORY NELMS 13	14
15	PROJECT LABORATORY NELMS 16	PROJECT PRESENTATION AND DISCUSSION NELMS 17	WRAP-UP/ APPRECIATION BANQUET 18	PROFESSIONAL RESEARCH 19	DEPART 20	21
22	VICTORIA DAY / FÊTE DE DOLLARD 23	24	25	26	27	28
29	30	31				

APPENDIX B-2

INTENSIVE ENGLISH CONTENT

English Sentence Structure

The Successor to *English Sentence Patterns*



Robert Krohn

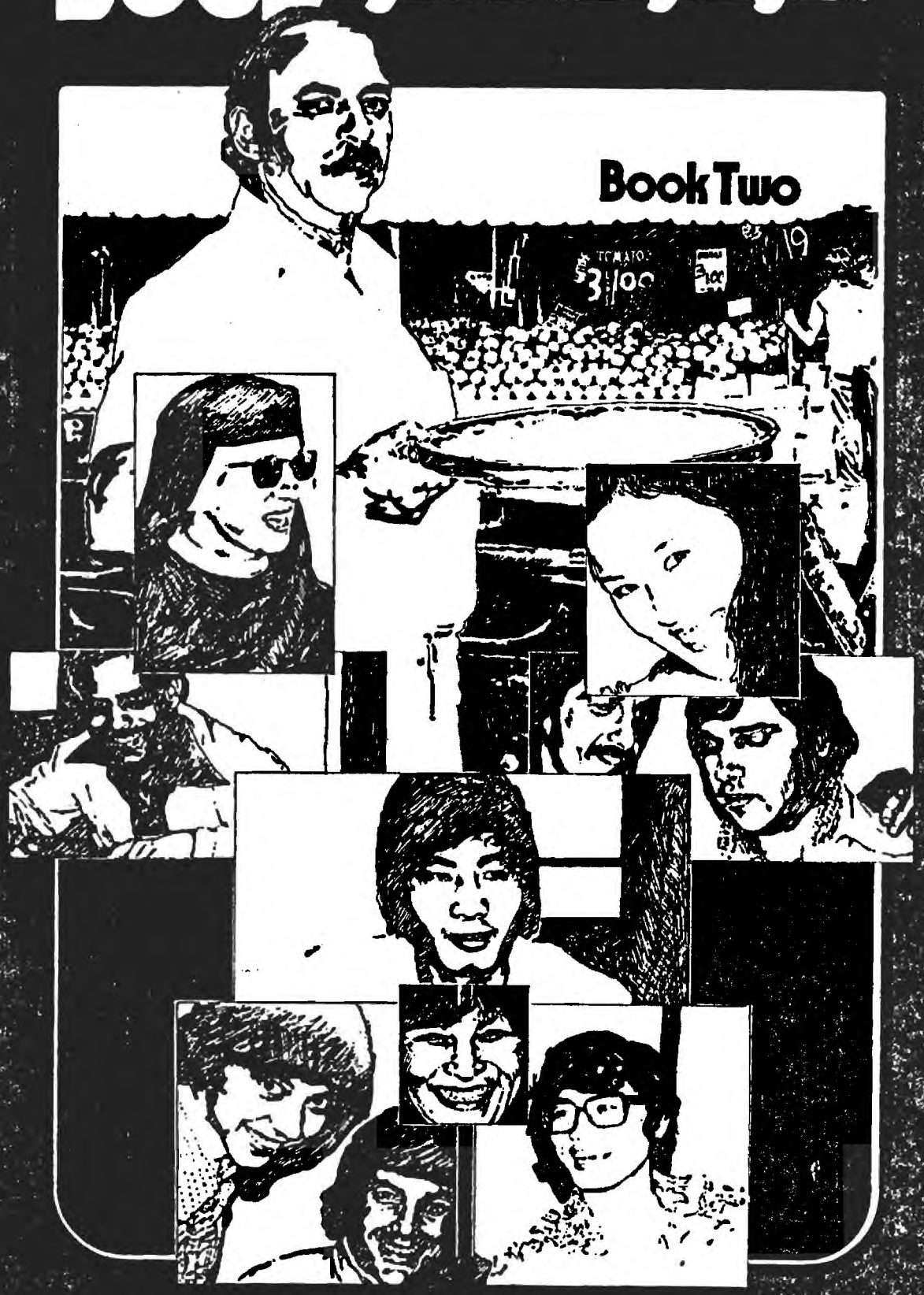
And the Staff of the English Language Institute

Contents

Contents

A Conversation Book

English in everyday life



Tina Kasloff Carver & Sandra Douglas Fotinos

Getting Acquainted

contents

A Conversation Book

english in everyday life

Book Two

Among its many features, Book Two:

- ☐ Provides a variety of conversation exercises that are useful and relevant to real life situations.
- ☐ Employs a self-directed, open-ended learning format.
- ☐ Contains 900 illustrations to stimulate conversation.
- ☐ Supplies extensive appendices which include lists of names and addresses of resource agencies, maps, songs, information on: health insurance and public health programs, education, measurement equivalents, U.S. Immigration Service. Appendices also include numerous teaching suggestions.
- ☐ Suggests additional activities and special class projects.
- ☐ Features the flexibility to adapt to student needs and course requirements.

Contents:

Cover design by Lana Giganti, A Good Thing, Inc.

Prentice Hall, Inc. / Englewood Cliffs, New Jersey 07632

APPENDIX B-3

ENGINEERING TECHNOLOGY IN THE 80's

KOREAN PROFESSORS TRAINING PROGRAM

SCHEDULE

DATE	TIME	SUBJECT	INSTRUCTOR	DEPT.
Nov. 7	9-12	Basic Electronics	Wilson	ECET
	1-4	Plant Tour - Plant Atkinson	Bachman	ECET
Nov. 8	9-12	Rotating Machinery (Motor Generators)	Bachman	ECET
	1-4	Plant Tour - Allatoona Dam	Bachman	ECET
Nov. 9	9-12	Alternating Current, AC Analysis	White	ECET
	1-4	Semiconductor Devices	Tucker	ECET
Nov. 10	9-12	Amplifier Analysis	Wojnowiak	ECET
	1-4	Plant Tour - Satellite Earth Station	Wilson	ECET
Nov. 14	9-12	Plant Tour-Lockheed Georgia Company		
	1-4	Organization of Development Studies	Tippens	DS
Nov. 15	9-12	Decision Making Among Alternatives	Wimberly	IET
	1-4	Decision Making Among Alternatives	Wimberly	IET
Nov. 16	9-12	Organization of Development Studies	Tippens	DS
			Davis	DS
			Anderson	DS
			Shank	DS
	1-4	Apparel & Textile·Eng. Technology	Haddock	ATET
Nov. 17	9-12	Construction Material	Hornbeck	CET
		Tour of CET labs and surveying equipment	Hornbeck	CET
		Construction Methods & Elective Courses	Puffer	CET
	1-4	Construction Scheduling	Carter	CET
		Trip to Jobsite	Puffer	CET
		Jobsite Tour and Discussion with ABC Representative	Puffer	CET
Nov. 21	9-11	Architectural Engineering Technology	Newman	AET
	11-12	Oral & Written Communication	Hays	English
	1-4	Computer Systems Technology	Harbort	CST
Nov. 22	9-12	Computer Systems Technology	Massey	CST
	1-4	Computer Systems Technology	Ross	CST

APPENDIX B-4

BOILER TECHNOLOGY

TABLE OF CONTENTS

Section No.

Section No.

Appendices

APPENDIX B-5

WASTE HEAT RECOVERY

WASTE HEAT RECOVERY

Sponsored by

Georgia Office of Energy Resources

Conducted by

Technology Applications Laboratory
Engineering Experiment Station
GEORGIA INSTITUTE OF TECHNOLOGY
Atlanta, Georgia 30332

February 18, 1982

WASTE HEAT RECOVERY

Table of Contents

APPENDIX B-6

COMPETENCY BASED VOCATIONAL EDUCATION

COMPETENCY BASED VOCATIONAL EDUCATION

Monday, 5 December

9:00 - 11:30	Welcome
	Reception
	Tour (campus)
	Program Orientation
11:30 - 1:00	Lunch
1:00 - 4:00	Orientation: The World of Work Translated Into The World of Vocational Education
	a) Industry/Occupational Task Analysis
	b) Educations Interpretation of the World of Work
	c) The Role of the Craft Advisory Committee in Vocational Education

COMPETENCY BASED VOCATIONAL EDUCATION

Tuesday, 6 December

9:00 - 11:30	Overview of Competency Based Vocational Education
11:30 - 1:00	Lunch
1:00 - 3:00	Continue
3:00 - 3:30	Preparation For Field Trip

COMPETENCY BASED VOCATIONAL EDUCATION

Wednesday, 7 December

8:30	Board Bus at Residence for Pickens Tech
10:30 - 11:00	Welcome to Pickens Tech
11:00 - 12:30	Tour of the Facility
12:30 - 1:30	Lunch
1:30 - 2:30	Visit Specific Areas of Interest
2:30 - 3:30	Panel Discussion on Observations
3:30 - 3:45	Preparation for Thursday, December 8
3:45	Board Bus to Return to Residence

APPENDIX B-7

HIGH TECHNOLOGY CURRICULUM

HIGH TECHNOLOGY

Trends in Occupational Education

Thursday, 8 December

9:00 - 10:30 Overview of High Technology

1. The Computer as a Tool
2. Robotics and Automated Processes
3. Computer Augmented Design and Manufacturing
4. Trends and Anticipated Changes

10:30 - 12:00 Developing a High Technology Curriculum

1. Evaluating Resources
2. Curriculum Models
3. Staffing
4. Equipment and Facilities

1:00 - 1:30 Orientation for Field Visit

1:30 - 4:00 Robotics Tour and Summary Discussion

HIGH TECHNOLOGY

Trends in Occupational Education

Friday, 9 December

9:00 - 9:30 Orientation for Industry Tour

9:30 - 12:00 Tour of Industrial Facility

1:00 - 2:30 Wrap-up and Discussion of Tours

2:30 - 3:30 Wrap-Up

1. Summary/Review
2. Questions/Answers
3. Participant Evaluation

3:30 - 4:00 Presentation of Awards

APPENDIX B-8

ROBOTICS PUBLICATIONS

ROBOTICS PUBLICATIONS

Engelberger, Joseph F. Robotics in Practice. United States, AMACOM: American Management Association Communications, 135 West 50th Street, New York, NY 10020, 1980. ISBN 0-8144-5645-6. Price: $39.95.
This book discusses the management and applications of industrial robots.

The following publications may be ordered from this company and address:

SYNAPSE INFORMATION RESOURCES, INC.
912 Cherry Lane
Vestal, New York 13850

Dorf, Richard C. Robotics and Automated Manufacturing. 1983. Order No. 19 966 860. Price: $24.95.
The purpose of this book is to consider the fundamental concepts and applications of robotics and computer-aided manufacturing systems that may be effectively utilized in the nation's work places.

Morgan, C. Using Robots. 1983. Order No. 23 125 841. Price: $38.00.
This clear nontechnical book gives the reader a broad perspective on the use of robots in manufacturing including detailed case studies of robot application.

Holland, John M. Basic Robotic Concepts. 1983. Order No. 10 219 522. Price: $19.95.
This book thorougly covers the four most central subjects of robotics: motion control, manipulators, mobility, and vision.

Rooks, Brian and Mortimer, John. Decade of Robotics. 1983. Order No. 23 125 450. Price: $31.00.
This book contains over 40 articles specially written by leading personalities and experts in robotics throughout the world.

Rooks, Brian. Developments in Robotics 1983. Order No. 08 865 942. Price: $59.50.
This collection of papers is the first in a new series of annual publications with the emphasis on the latest developments and research in robotics.

Industrial Robots. (Productivity Equipment Series.) 1983. Order No. 22 630 978. Price: $36.00.
This book supplies up-to-the-minute information from over 60 different manufacturers on vital production data.

Helmers, Carl. Robotics Age: In the Beginning. 1983. Order No. 12 463 253. Price: $16.95.
A compilation of articles that have appeared in "Robotics Age" magazine.

Hartley, John. Robots at Work: A Practical Guide for Engineers and Managers. 1983. Order No. 08 866 388. Price: $39.00. Based in Japan, John Hartley assesses the international scene and answers the questions which production engineers and managers are most likely to ask.

Productivity International, Inc. Professional Staff. A Survey of Industrial Robots. 1982. Order No. 09 547 512. Price: $143.00. The topics covered range from the technical aspects of a hierarchial computer-based manufacturing system, to insuring the robot's social acceptability to emloyees.

APPENDIX B-9

COMPUTER USER'S GUIDE

User's Guide

1. This catalogue lists 9.354 titles of foreign journals covering all the fields in science and technology (including technical reports, patents and management), which are collected by 152 institutions, such as university libraries, institutes and manufacturing enterprises including KORSTIC.
2. Contents consist of the list of titles arranged in alphabetical order and the classified list of journals based on the Universal Decimal Classification. Journals in the fields of information, library science, management, economics, education, sociology and psychology are arranged at the end.
3. The acronym titles precede the alphabetical ones.
4. Chinese and Japanese kana titles are listed in Korean alphabetical order following European and American titles, respectively pronounced in Korean and arranged in accordance with the "Rules for Koreanizing Japanese kana" promulgated by the Ministry of Education.
5. If a title appears in more than two languages, the language which coincides with the content's has been adopted.
6. Changed titles are marked with arrows (→) from the former to the current one.
7. The journal of which International Standard Serial Number (ISSN) is available in the Title Index for Bowker Serials Bibliography, 2nd edition, 1972, has the Number following the title, the place and the call number.
8. The institutions listed in this catalogue are as follows.

No.	Name of Institution
①	Korea Scientific and Technological Information Center (KORSTIC)
②	Korea Institute of Science and Technology
③	Central Library, Korea University
④	Office of Rural Development
⑤	Hong Neung Machine Industry Co., Ltd.
⑥	Industrial Standards Research Institute
⑦	Central Library, Yonsei University
⑧	Korea Atomic Energy Research Institute (KAERI)
⑨	Library, Sogang University
⑩	Engineering Library, College of Engineering, SNU (Seoul National University)
⑪	Agriculture Library, College of Agriculture, SNU
⑫	Central Library, Inha University
⑬	Library, Kyongbuk National University
⑭	Central Library, Sunggyunkwan University
⑮	Central Library, Ewha Woman's University
⑯	Library, Chungang University
⑰	Library, Pusan National University

⑱ Medical College Library, Chonnam National University
⑲ Veterinary Research Labratory
⑳ Library, Chonbuk National University
㉑ Central Library, Hanyang University
㉒ Railroad Technical Research Institute
㉓ Central Library, Yongnam University
㉔ Patent Office, Ministry of Commerce and Industry
㉕ Central Library, Konkuk University
㉖ Fisheries Research and Development Agency
㉗ Forest Research Institute
㉘ National Assembly Library
㉙ Central Library, Kyung Hee University
㉚ Central Library, Dongguk University
㉛ Technical Operation Services Department, Korea Development Bank
㉜ Pusan Fisheries College
㉝ Geological and Mineral Institute of Korea
㉞ Library, Chonnam National University
㉟ Life Science Library, KAERI
㊱ Chinju College of Agriculture
㊲ Central Library, Seoul National University
㊳ Chungjoo Factory, Korea General Chemical Industry Corporation
㊴ Korea Engineering Consultants Corporation
㊵ Library, Toksong Women's College
㊶ Taejeon Campus, Sungjon University
㊷ Library, Chungnam National University
㊸ Geological and Mineral Institute of Korea
㊹ Electric and Communications Laboratory
㊺ National Institute of Health
㊻ Institute of Forest Genetics
㊼ Library, Chungbuk College
㊽ Gold Star Co., Ltd.
㊾ Horticulture Experimental Station
㊿ Central Library, Hongik University
(51) Institute of Agricultural Engineering and Utilization
(52) Institute of Agricultural Science and Technology
(53) Library, Dong-A Pharmaceutical Co., Ltd.
(54) Central Research Institute, Office of Monopoly
(55) Cancer Research Hospital, KAERI
(56) Library, Sukmyong Women's University
(57) Livestock Experimental Station, Office of Rural Development
(58) Kunsul Chemical Industrial Co.
(59) College of Education Library, SNU
(60) Central Library, Tankuk University
(61) Central Library, Tonga University
(62) Food Processing Center, AFDC
(63) Oriental Precision Co., Ltd.
(64) Yuhan Corporation
(65) Korea Electric Company
(66) Library, Myongji University
(67) Oriental Brewery Co., Ltd.
(68) Pacific Chemical Industrial Co., Ltd.
(69) Hankook Machine Industry Co., Ltd.
(70) ROK Army Research & Development Command
(71) Chong Kun Dang Corporation
(72) Cheil Sugar Co., Ltd.
(73) Library, Naval Academy of Korea
(74) Kunsan Branch, Fisheries Research and Development Agency
(75) Yongnam Farm Products Experimental Station, Office of Rural Development
(76) National Central Library
(77) Cheju Experimental Station, Office of Rural Development
(78) Tongyang Machine Manufacturing Co.
(79) Hankuk Aviation College
(80) Institute of Hygiene, Kyungsang Nam-do
(81) Korea Tungsten Mining Co., Ltd.
(82) Seoul Industry College
(83) Chosun Brewery Co., Ltd.
(84) Korean Society of Plant Protection
(85) Central Meteorological Office
(86) Hankuk Glass Industry Co., Ltd.
(87) Industrial Research Institute, Pusan, Kyungsang Nam-do
(88) Medical College Library, Hanyang University
(89) Cheju Experiment Office, Fisheries

Research and Development Agency
(90) Korea Fishery Research Institute
(91) Honam Electric Industrial Co., Ltd.
(92) Technical Research Institute, Office of National Tax Administration
(93) Sericulture Experimental Station
(94) Veterinary Health Center, Cholla Nam-do
(95) Radio Research Laboratory
(96) Medical Library, Korea University
(97) Pumyang Pharmaceutical Chemistry Co., Ltd.
(98) Pharmacy Library, College of Pharmacy, SNU
(99) Library, Sungjon University
(100) Yung Jin Pharmaceutical Industry Co., Ltd.
(101) Saimpyo Food Industrial Co., Ltd.
(102) Forest Experimental Station, Kyunggi-do
(103) Veterinary Health Center, Kyungsang Nam-do
(104) Library, Seoul Women's College
(105) Veterinary Health Center, Cholla Puk-do
(106) Central Library, Chosun University
(107) Institute of Hygiene, Chungchong Puk-do
(108) Korea Electronics Industries Association
(109) Silkworm Species Station, Kyungsang Puk-do
(110) Ewha Woman's University Hospital Library
(111) Silkworm Species Station, Cholla Nam-do
(112) Han Kook Slate Industrial Co., Ltd.
(113) Institute of Hygiene, Cholla Puk-do
(114) Silkworm Species Station, Chungchong Puk-do
(115) Pohang Iron and Steel Co., Ltd.
(116) College of Liberal Arts and Sciences Library, SNU
(117) Library, Catholic Medical College
(118) Korea Development Institute
(119) Korea Advanced Institute of Science
(120) Library, Kang Woen National University
(121) Korean Institute for Family Planning
(122) Library, Kyongsang College
(123) Maryknoll Hospital Library
(124) Library, Hankuk Marine College
(125) Dong Wha Pharmaceutical Industrial Co., Ltd.
(126) Library, Hyosong Women's College
(127) Korea Fertilizer Co., Ltd.
(128) Korea General Chemical Industry Corporation
(129) Library, Seoul Health Junior College
(130) Library, Sudo Women's Teachers College
(131) Korean National Commission for the UNESCO
(132) Library, Naval Command & Staff College
(133) Department of Agriculture Library, Cheju College
(134) Sang-Joo Agricultural and Sericultural Junior College
(135) Han-Dok Remedia Industrial Co., Ltd.
(136) Sin Sin Pharmacy
(137) Chungang University Mecical College Sungsim Hospital
(138) Pusan Steel Pipe Industrial Company Ltd.
(139) Industrial Advancement Administration plan and Standard Information Service Center.
(140) Library, Hongik Technical Junior College
(141) National Construction Research Institute
(142) Seoul Miwon Co.
(143) Korean Standards Association
(144) Dongshin Pharmaceutical Co., Ltd.
(145) Library, Wulsan Institute of Technology
(146) Library, A-Jou Institute of Technology
(147) National Institute of Scientific Investigation
(148) Korea Research Institute of Geoscience and Resources
(149) Korea National Astronaumical Observatory
(150) Korea Standards Research
(151) Library, Kwang Woon Institute of Technology
(152) Library, Keimyung University

(Sample Entry)

① ②
Chemical Engineering Progress. New York
③ ④
(B 166) US ISSN 0009-2495
⑤ ⑥ ⑦ ⑧
① 43(1947) -
② 46(1950) -
③ 62(1966) -

① Title
② Place of Publication
③ Call Number of KORSTIC
④ International Standard Serial Number
⑤ Number allocated to Holding Institution
⑥ Volume
⑦ Year
⑧ Continuance Mark

APPENDIX B-10

DIALOG DATA BASE

(plus $1.50 postage and handling). The 1983 manual builds upon the 1978 edition that has been popular with users. Revised and updated, the SA URM contains an expanded authority file, a list of journals screened currently, a detailed description of the classification scheme, sample searches, and key information about "meeting series" (abstracts of conference papers). Also specified are various editorial changes instituted in the past four years.

The publication may be ordered from:

Sociological Abstracts, Inc.
P.O. Box 22206
San Diego, CA 92122

Prepayment will expedite delivery.

DATA COMMUNICATIONS

ACCESS FROM KOREA

GTE Telenet has recently announced the availability of data communication access from Korea. For details, contact:

Data Communications Corporation
of Korea (DACOM)
The Business Office, 12th Floor
Korea Stock Exchange Building
1-116 Yeoeido-Dong, Yeongdungpo-Ku
Seoul, Korea
Telephone: (787) 28311

TELENET, TYMNET, AND UNINET TELEPHONE NUMBERS

Unless otherwise noted, numbers cited may be used for any ASCII-coded access at either 120 or 30 characters-per-second. The UNINET numbers below work only with the new instructions (distributed with the March 1983 *CHRONOLOG*).

- **New Numbers:**

Colorado Springs, CO	303/636-5104	UNINET
Greeley, CO	303/356-0425	TYMNET
Bloomfield, CT	203/242-7140	TYMNET
Boca Raton, FL	305/395-7330	TYMNET
Ft. Myers, FL	813/936-4221	TYMNET
Ft. Pierce, FL	305/466-0661	TYMNET
Lakewood, FL	813/688-5776	TYMNET
Longwood, FL	305/859-7670	TYMNET
Merritt Isle, FL	305/459-0671	TYMNET
Ocala, FL	904/351-0070	TYMNET
Lawrence, KS	913/749-0271	TYMNET
Manhattan, KS	913/776-5189	TYMNET
Alexandria, LA	318/443-9544	TYMNET
Lake Charles, LA	318/436-1644	TYMNET
Fitchburg, MA	617/343-8480	TYMNET
Pittsfield, MA	413/442-6965	TYMNET
Rolla, MO	314/364-3486	TYMNET
St. Cloud, MN	612/259-0512	UNINET
Missoula, MT	406/728-2415	TYMNET
Atlantic City, NJ	609/345-6888	TYMNET
Morristown, NJ	201/993-8749	UNINET
Princeton, NJ	609/924-6560	UNINET
Trenton, NJ	609/393-1930	UNINET
Las Cruces, NM	505/524-1944	TYMNET
Warren, OH	216/394-6529	TYMNET
Ardmore, OK	405/223-1552	TYMNET
Enid, OK	405/233-7903	TYMNET
Lawton, OK	405/355-0745	TYMNET
Greenberg, PA	412/837-3800	TYMNET
New Castle, PA	412/652-4223	TYMNET
Rapid City, SD	605/341-8882	UNINET
Sioux Falls, SD	605/332-6421	UNINET
Amarillo, TX	806/383-0304	TYMNET
Brownsville, TX	512/541-2251	TYMNET
Denton, TX	817/565-9273	TYMNET
Houston, TX	713/556-6700	TYMNET
Killeen, TX	817/634-2810	TYMNET
McAllen, TX	512/631-0020	TYMNET
Nederland, TX	713/724-0726	TYMNET
Ogden, UT	801/627-2022	TYMNET
Provo, UT	801/375-0645	TYMNET
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Petersburg, VA	804/862-4700	TYMNET
Vancouver, WA	706/693-0371	TYMNET
Morgantown, WV	304/292-2175	TYMNET

- **Changed Numbers (new number given):**

Escondido, CA	619/741-7756	TELENET
San Diego, CA	619/231-1922 @	TELENET
San Diego, CA	619/233-0233 *	TELENET
San Diego, CA	619/569-9213	UNINET
Santa Barbara, CA	805/963-9241	TYMNET
Waterbury, CT	203/755-1153	TYMNET
Evansville, IN	812/424-7693	TELENET
Fort Wayne, IN	219/426-2268	TELENET
Bowling Green, KY	502/782-7941	TELENET
Frankfort, KY	502/875-4654	TELENET
Lexington, MA	606/253-3463	TYMNET
Flint, MI	313/732-7303	TYMNET
Flint, MI	313/235-8517	TELENET
Plymouth, MI	313/459-8900	TYMNET
Southfield, MI	313/569-8350	TYMNET
Galveston, TX	409/762-3308	TELENET
Nederland, TX	409/722-3720	TELENET

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Telex 334499 (DIALOG)
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England
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Telex: 837704 (Inform G)

In Canada:
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144 Front Street, West
Toronto, Ontario M5J 2L7
Telephone: (416) 593-5211
Telex: 065-24668

In Japan:
Kinokuniya Company Ltd.
ASK Information Retrieval Services Dept.
Attn: Mr. Isao Miura
Village 101 Bldg.
1-7 Sakuragaoka-machi, Shibuyu-Ku
Tokyo, Japan 150
Telephone (03) 463-4391
Telex: 27655 (Kinoask J)
Cable: Kinokuni

Maruzen Co., Ltd.
MASIS Center
P.O. Box 5335
Tokyo International
100-31
Japan
Telephone: Tokyo 272-7211
Telex: J26630 (MARUZEN J)
Cable: Moraya Tokyo

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Philadelphia, PA

Dialog Information Services, Inc.
July 1983

ABI/INFORM, August 1971–present, 202,500 records, monthly updates (Data Courier, Inc., Louisville, KY)

The *ABI/INFORM* database is designed to meet the information needs of executives and covers all phases of business management and administration. *ABI/INFORM* stresses general decision sciences information which is applicable to many types of businesses and industries. Specific product and industry information is included but does not receive primary emphasis. Approximately 550 primary publications in business and related fields are currently scanned for articles to be abstracted and included in *ABI/INFORM.*

SDI: $9.95/update

$73 per online connect hour, 30¢ per full record printed offline, 20¢ per full record typed or displayed online ***File 15***

ADTRACK, 1980–present, 320,000 records, monthly updates (Corporate Intelligence, Inc., St. Paul, MN)

ADTRACK indexes all advertisements of ¼ page size or larger appearing in 148 major U.S. consumer magazines. The 148 titles account for over 98% of advertising revenues in major magazine categories. Advertisements are indexed by product name, company name and the characteristics and content of the advertisement. *ADTRACK* is designed primarily for the needs of advertising agencies, product and brand managers, government agencies, retailers and magazine publishers.

$95/per online connect hour, 25¢ per full record printed offline or typed or displayed online. ***File 43***

AGRICOLA, 1970–present, 1,785,000 records, monthly updates (National Agricultural Library, Beltsville, MD)

AGRICOLA (formerly *CAIN*) is the cataloging and indexing database of the National Agricultural Library (NAL). This massive file provides comprehensive coverage of worldwide journal and monographic literature on agriculture and related subjects. Since *AGRICOLA* represents the actual holdings of the National Agricultural Library, there is substantial coverage of all subject matter normally contained in a very large library. File 110 contains the citations for the years 1970–1978. File 10 contains citations from 1979 to the present. Both files have similar format and identical coverage and pricing.

SDI: $5.95/update

$35 per online connect hour, 10¢ per full record printed offline ***Files 10, 110***

AIM/ARM, September 1967–1976, 17,500 citations (The Center for Vocational Education, The Ohio State University, Columbus, OH)

AIM/ARM is a specialized index for locating materials on vocational and technical education as well as the related areas of manpower economics and development, employment, job training, and vocational guidance.

AIM/ARM provides subject and author indexes to the abstracts of the following: instructional materials developed by local school districts, state departments of education, curriculum development laboratories, industrial organizations, and research from U.S. Office of Education, Department of Labor, Office of Economic Opportunity, private foundations, and other organizations.

Beginning in 1977 records which would have been added to the AIM/ARM database have been included in *ERIC* (File 1).

$25 per online connect hour, 10¢ per full record printed offline ***File 9***

Air Pollution Technical Information Center (See APTIC)

Alloys Index (See METADEX)

AMERICA: HISTORY AND LIFE, 1964–present, 184,000 records, quarterly updates (ABC-Clio Inc., Santa Barbara, CA)

AMERICA: HISTORY AND LIFE (AHL), covering the full range of U.S. and Canadian history, area studies, and current affairs, is a comprehensive and current aid to bibliographic research. The online database corresponds to the printed *America: History and Life, Part A (Article Abstracts and Citations), Part B (Index to Book Reviews),* and *Part C (American History Bibliography).*

AHL includes coverage for the following typical areas: American studies, ethnic studies, folklore, history, historiography and methodology, international relations, local history, oral history, prehistory, politics and government, popular culture, teaching of history, and urban affairs.

$65 per online connect hour, 15¢ full record printed offline ***File 38***

AMERICAN MEN AND WOMEN OF SCIENCE, 130,000 records, updated every 3 years (R. R. Bowker, New York, NY)

The *AMERICAN MEN AND WOMEN OF SCIENCE* database is a biographical registry of eminent, active American and Canadian scientists. Corresponding to the printed *American Men and Women of Science, Physical and Biological Sciences,* the file includes over 130,000 scientists actively working in over 65 broad scientific disciplines and 1,100 sub-discipline specialties. Included are all areas of the physical and biological sciences. Information provided in each record includes basic biographical data (e.g., year of birth, education, etc.) as well as a list of positions held, awards and honors, and research specialties. Also included, when available, is a mailing address.

$95 per online connect hour, 40¢ per full record printed offline ***File 236***

*Forthcoming database

- Its data is drawn from many conventional discipline-oriented fields such as chemistry or engineering but is incorporated into *ENERGYLINE* only as it relates to energy issues and problems. Its coverage includes journals, books, Congressional committee prints, conference proceedings, speeches, and statistics. *ENERGYLINE* provides information on scientific, technical, socio-economic, governmental policy and planning, and current affairs aspects of energy.

  SDI: $7.95/update

  $90 per online connect hour, 25¢ per full record printed offline, 15¢ per full record typed or displayed online ***File 69***

ENERGYNET*, current information, 3,000 records, annual update (Environment Information Center, New York, NY)

The *ENERGYNET* database contains up-to-date, directory-type information on over 3,000 organizations and 8,000 people in energy-related fields. *ENERGYNET* includes data for both profit and non-profit organizations, as well as government agencies. In addition to organization information, each record contains the names, addresses and phone numbers of key energy contacts, and a narrative description of the organization's goals where appropriate. Records may also include the following information where applicable: descriptions of each activity of the organizations including the names of key personnel for each activity, and names and addresses of branch offices and personnel.

$90 per online connect hour, 50c per full record printed offline ***File 169***

Engineering Index (See COMPENDEX)

Engineering Meetings (See Ei ENGINEERING MEETINGS)

ENVIROBIB (See ENVIRONMENTAL BIBLIOGRAPHY)

ENVIROLINE*, 1971–present, 102,000 citations, monthly updates (Environment Information Center, Inc., New York, NY)

ENVIROLINE, produced by the Environment Information Center, covers the world's environmental information. Its comprehensive, interdisciplinary approach provides indexing and abstracting coverage of more than 5,000 international primary and secondary source publications reporting on all aspects of the environment. Included are such fields as: management, technology, planning, law, political science, economics, geology, biology, and chemistry as they relate to environmental issues. Literature covered includes periodicals, government documents, industry reports, proceedings of meetings, newspaper articles, films and monographs. Also included are rulings from the *Federal Register* and patents from the *Official Gazette*.

SDI: $7.95/update

$90 per online connect hour, 25¢ per full record printed offline, 15c per full record typed or displayed online ***File 40***

ENVIRONMENTAL BIBLIOGRAPHY, 1973–present, 216,000 records, bimonthly updates (Environmental Studies Institute, Santa Barbara, CA)

The *ENVIRONMENTAL BIBLIOGRAPHY* covers the fields of general human ecology, atmospheric studies, energy, land resources, water resources, and nutrition and health. More than 300 periodicals are indexed in *ENVIRONMENTAL BIBLIOGRAPHY*, thereby providing quick-and-easy access to article references for every environment research need. Librarians, chemists, land-use planners, government officials, and corporate executives, among others, will find this database a functional asset to their work.

$60 per connect hour, 15¢ per full record printed offline ***File 68***

EPB (See Environmental Bibliography)

ERIC, 1966–present, 493,500 citations, monthly updates (National Institute of Education, Washington, D.C., and ERIC Processing and Reference Facility, Bethesda, MD)

ERIC is the complete database on educational materials from the Educational Resources Information Center. It consists of two main files: *Resources in Education*, which is concerned with identifying the most significant and timely education research reports and projects; and *Current Index to Journals in Education*, an index of more than 700 periodicals of interest to every segment of the educational profession. Many items (aside from journal articles) can be purchased from the ERIC Document Reproduction Service in paper copy or microfiche. There are approximately 650 locations throughout the country having complete collections of the ERIC microfiche, and most are open to the general public.

SDI: $4.95/update

$25 per online connect hour, 10c per full record printed offline ***File 1***

Exceptional Child Education Abstracts (See EXCEPTIONAL CHILD EDUCATION RESOURCES)

EXCEPTIONAL CHILD EDUCATION RESOURCES, 1966–present, 52,000 citations, monthly updates (The Council for Exceptional Children, Reston, VA)

EXCEPTIONAL CHILD EDUCATION RESOURCES (ECER) is a comprehensive database concerned with published and unpublished literature on the education of handicapped and gifted children. The *ECER* database covers such sources as books, journal articles, teaching materials, and reports. *ECER* is a valuable supplement to the Educational Resources Information Center database (*ERIC*) since only about one-half of the *ECER* citations are duplicated in *ERIC* (File 1). All aspects of the education of handicapped and gifted children are included.

$35 per online connect hour, 15c per full record printed offline ***File 54***

EXCERPTA MEDICA, June 1974–present, 2.3 million records, monthly updates (Excerpta Medica, Amsterdam, The Netherlands)

EXCERPTA MEDICA is one of the leading sources for searching the biomedical literature. It consists of abstracts and citations of articles from over 3,500 biomedical journals published throughout the world. It covers the entire field of human medicine and related disciplines. The online file corresponds to the 43

wire (which is transferred to *TRADE AND INDUSTRY INDEX* monthly.) Every working day the previous day's news stories are indexed and added to *NEWSEARCH* to provide current information on general news; product reviews; executive and corporation news; current events; book, record, theatre reviews; business and trade news; and much more. At the end of each month the magazine article data is transferred to the *MAGAZINE INDEX* database (File 47); the newspaper indexing data is transferred to the *NATIONAL NEWSPAPER INDEX* database (File 111). Indexing for *LEGAL RESOURCE INDEX* (File 150), *MANAGEMENT CONTENTS* (File 75), and *TRADE AND INDUSTRY INDEX* (File 148) is also transferred at the end of each month.

$95 per online connect hour, 20¢ per full record printed offline ***File 211***

NICEM, 1979 edition, 331,150 records, biennially replaced (National Information Center for Educational Media, U. Southern California, Los Angeles, CA)

The *NICEM* database offers comprehensive coverage of non-print educational material. *NICEM* covers the entire spectrum of the educational field from preschool to professional and graduate school levels. Librarians, media specialists, curriculum planners, and researchers who search *NICEM* will gain references to all types of educational media—16 mm films, 35 mm filmstrips, overhead transparencies, audio tapes, video tapes, phonograph records, motion picture cartridges, and slides.

$70 per online connect hour, 20¢ per full record printed offline ***File 46***

NICSEM/NIMIS, 1978 edition, 39,000 records (National Information Center for Special Education Materials, Los Angeles, CA)

NICSEM/NIMIS (NATIONAL INSTRUCTIONAL MATERIALS INFORMATION SYSTEM) contains descriptions of media and devices for use with handicapped children. Audio visual materials and equipment, large print and braille books, and many types of equipment and adaptive devices for all handicap levels are included. Media in the database cover a wide range of subject areas including language and language arts, sciences, health, vocational education, mathematics, fine arts, history, and religion. Also included are materials dealing with cognition and perceptual recognition, motor processes, guidance, and personal skills.

$35 per online connect hour, 10¢ per full record printed offline ***File 70***

NONFERROUS METALS ABSTRACTS, 1961–present, 116,200 records, monthly updates (British Non-Ferrous Metals Technology Centre, Wantage, Oxfordshire, England)

NONFERROUS METALS ABSTRACTS covers all aspects of nonferrous metallurgy and technology. Sources include journals, monographs, British patents, reports, standards, and conference papers. The majority of the publications indexed are English language, but a large number of German and French publications are cited as well. *NONFERROUS METALS ABSTRACTS* corresponds to the printed publication, *BNF Abstracts*.

$45 per connect hour, 20¢ per full record printed offline, 10¢ per full record typed or displayed online ***File 118***

NTIS, 1964–present, 972,400 citations, biweekly updates (National Technical Information Service, NTIS, U.S. Department of Commerce, Springfield, VA)

The *NTIS* database consists of government-sponsored research, development, and engineering plus analyses prepared by federal agencies, their contractors or grantees. It is the means through which unclassified, publicly available, unlimited distribution reports are made available for sale from such agencies as NASA, DDC, DOE, HHS (formerly HEW), HUD, DOT, Department of Commerce, and some 240 other units. State and local government agencies are now beginning to contribute their reports to the file.

The *NTIS* database includes material from both the *hard* and *soft* sciences, including substantial material on technological applications, business procedures, and regulatory matters. Many topics of immediate broad interest are included, such as environmental pollution and control, energy conversion, technology transfer, behavioral/societal problems, urban and regional planning.

SDI: $5.95/update

$45 per online connect hour, 15¢ per full record printed offline ***File 6***

OCEANIC ABSTRACTS, 1964–present, 138,400 records, bimonthly updates (Cambridge Scientific Abstracts, Bethesda, MD)

OCEANIC ABSTRACTS organizes and indexes technical literature published worldwide on marine-related subjects. Over 9,000 citations from approximately 2,000 worldwide sources are added to the database each year. Records cite journals, books, technical reports, conference proceedings, and government and trade publications. Major subject areas covered by *OCEANIC ABSTRACTS* are oceanography, marine biology, marine pollution, ships and shipping, geology and geophysics, meteorology, and governmental and legal aspects of marine resources.

$73 per online connect hour, 30¢ per full record printed offline, 25¢ per full record typed or displayed online ***File 28***

ONLINE CHRONICLE, October 1981–September 1982. 868 records, biweekly updates (Online, Inc., Weston, CT)

The *ONLINE CHRONICLE* is a full text source for news in the online industry. The *ONLINE CHRONICLE* is an expanded version of the "News" sections of *Online* and *Database* magazines containing information on major online industry events, new databases, computer equipment, search aids, and people in the online world. Each news item is a textual record that is supplemented by keyword indexing from a controlled vocabulary.

$35 per online connect hour, 30¢ per full record printed offline, 15¢ per full record typed or displayed online ***File 170***

ERIC

DIALOG INFORMATION RETRIEVAL SERVICE

FILE DESCRIPTION

ERIC is the complete database of educational materials collected by the Educational Resources Information Center. It consists of two subfiles: *Resources in Education* (RIE), which is concerned with the most significant and timely education research reports; and *Current Index to Journals in Education* (CIJE), an index to more than 700 periodicals of interest to every segment of the educational profession.

SUBJECT COVERAGE

The ERIC database includes a wide variety of educational information organized by the following broad subject areas:

- Adult, Career, and Vocational Education
- Counseling and Personnel Services
- Early Childhood Education
- Educational Management
- Handicapped and Gifted Children
- Higher Education
- Information Resources
- Junior Colleges
- Languages and Linguistics
- Reading and Communication Skills
- Rural Education and Small Schools
- Science, Mathematics, and Environmental Education
- Social Studies/Social Science Education
- Teacher Education
- Tests, Measurement, and Evaluation
- Urban Education

SOURCES

ERIC collects and indexes many document types: research reports, evaluation studies, curriculum guides, lesson plans, bibliographies, course descriptions, theses, journal articles, pamphlets, and other "fugitive" materials. All non-copyrighted items can be purchased from the ERIC Document Repraduction Service (EDRS) in paper copy or microfiche. There are approximately 650 locations throughaut the country having collections of the ERIC microfiche, and mast are open to the general public.

DIALOG FILE DATA

Inclusive Dates:	1966 to the present
Update Frequency:	Monthly (oppraximately 3,000 records per month)
File Size:	402,262 records os of September 1980

ORIGIN

ERIC is produced by:

Notional Institute of Educatian
Educational Resources Information Center
Washington, DC 20208

Questions concerning file content should be directed to:

ERIC Processing and Reference Focility
4833 Rugby Avenue, Suite 303
Bethesda, MD 20014

Telephone: 301/656-9723

No special terms or conditions.

(Revised December 1980)

FILE 1

ERIC
DIALOG FILE 1

SAMPLE RECORD

DIALOG Accession Number → AN=
ED178312 SE029137 → /TI
CH= Guidelines for Teaching Mathematics K-12.
AU= Flax, Rosabel; And Others
CS= Kansas State Dept. of Education, Topeka. Div. of Education Services.
PY= Jun 1979 91p.; Best copy available
EDRS Price - MF01/PC04 Plus Postage.
LA= Language: English
DT= Document Type: Teaching Guide (052)
CP= Geographic Source: U.S./ Kansas
JA= Journal Announcement: RIEMAR80
GL= Government: State
AB= This guide is intended to provide a basic outline for developing local mathematics programs. It was developed to give Kansas mathematics teachers from grades K-12 minimal sequential experiences in implementing the skills, values, and concepts of the mathematics program. The guide contains objectives, a checklist of topics appropriate for each grade level, and a human resources guide which provides the names of individuals willing to serve as technical assistants to local school districts. (MK) → /AB
DE= Descriptors: *Directories/ *Elementary School Mathematics/ Elementary Secondary Education/ Guidelines/ *Mathematics Curriculum/ *Resource Teachers/ *Secondary School Mathematics/ *State Curriculum Guides/ State Departments of Education → /DE
ID= Identifiers: *Kansas → /ID

SEARCH OPTIONS

BASIC INDEX

SUFFIX	FIELD NAME	EXAMPLES
None	Basic Index (includes Abstract, Descriptor Identifier, and Title)	E SKILLS S RESOURCE?
/AB	Abstract	S MATHEMATICS(W)PROGRAM?/AB
/DE	Descriptor[1]	S MATHEMATICS CURRICULUM/DE
/ID	Identifier[2]	S KANSAS/ID
/TI	Title	S TEACHING(F)GUIDELINES/TI

[1]Also /DE*, /DF, /DF*.
[2]Also /ID*, /IF, /IF*.

ADDITIONAL INDEXES

PREFIX	FIELD NAME	EXAMPLES	
AN=	Clearinghouse Number	E AN=VT203158	S AN=SE029137
AU=	Author	E AU=BOOKER, E	S AU=FLAX, R?
CH=	Clearinghouse Code	E CH=VT	S CH=SE
CN=	Contract/Grant Number[3]	E CN=NIDA	S CN=NIDA-5-H81-DA-01496-03
CP=	Country of Publication[3,4]	E CP=JAPAN	S CP=U.S.
CS=	Corporate Source[3]	E CS=BBB10844	S CS=KANSAS(F)CS=STATE(F)CS=EDUCATION
DT=	Document Type[3]	E DT=TEACHING GUIDE	S DT=052
GL=	Government Level[3,4]	E GL=FOREIGN	S GL=STATE
JA=	Journal Announcement	E JA=CIJMAY80	S JA=RIEMAR80
JN=	Journal Name	E JN=LIBRARY	S JN=READING HORIZONS
LA=	Language[4]	E LA=FRENCH	S LA=GERMAN
PN=	Bureau/Project Number[3]	E PN=BR	S PN=BR-7-0883
PY=	Publication Year	E PY=1964	S PY=1979
RN=	Report Number[3]	E RN=ADM	S RN=ADM-79-678
SP=	Sponsoring Agency[3]	E SP=INST	S SP=BABCOCK(W)SP=FOUNDATION
UD=	Update	E UD=8003	S UD=9999
ZZ=	Related Descriptors	E ZZ=ABILITY	(Select from EXPAND display)

[3]RIE records only.
[4]For records from 1979 to the present.

LIMITING

SUFFIX	FIELD NAME	EXAMPLES
/ED	Accession Numbers and/or RIE Subfile	LIMIT 1/000788-999999/ED LIMIT 4/ED
/EJ	Accession Numbers and/or CIJE Subfile	LIMIT 5/082165-999999/EJ LIMIT 8/EJ
~~/AVAIL~~	Document Available from EDRS	LIMIT 6/AVAIL
~~/UNAVAIL~~	Document Not Available from EDRS	LIMIT 14/UNAVAIL
/MAJ	Major Descriptor or Identifier	LIMIT 7/MAJ
/MIN	Minor Descriptor or Identifier	LIMIT 9/MIN

No 7/5/87

SORTING

SORTABLE FIELDS	EXAMPLES
Online (.SORT) and offline (PRINT). AU,CS,JN,PY,TI	.SORT 8/1-56/JN/PY PRINT 15/5/1-129/AU

FORMAT OPTIONS

NUMBER	RECORD CONTENT	NUMBER	RECORD CONTENT
Format 1	DIALOG Accession Number	Format 5	Full Record
Format 2	Full Record except Abstract	Format 6	Title and DIALOG Accession Number
Format 3	Bibliographic Citation	Format 7	Bibliographic Citation and Abstract
Format 4	Abstract and Title	Format 8	Title and Indexing

DIRECT RECORD ACCESS

PREFIX	FIELD NAME	EXAMPLES	
None	DIALOG Accession Number	TYPE ED178312/6	PRINT EJ207531/5

DIALOG* INFORMATION RETRIEVAL SERVICE

AIM/ARM

FILE DESCRIPTION

AIM/ARM is a specialized index for locating materials on vocational and technical education. The database covers documents on all aspects and subfields of vocational and technical education and the related areas of manpower economics and development, employment, job training, and vocational guidance.

SUBJECT COVERAGE

AIM/ARM reports on a wide range of topics in vocational and technical education, including such subfields as the following:

- Agricultural Education
- Business and Office Education
- Consumer Education
- Distributive Education
- Health Occupations Education
- Home Economics Education
- Industrial Arts Education
- Manpower Economics
- Occupational Guidance
- Occupational Rehabilitation
- Trade and Industrial Education

SOURCES

AIM/ARM provides subject and author indexes to the abstracts of the following: instructional materials developed by local school districts, state departments of education, curriculum development laboratories, and industrial organizations; research from U.S. Office of Education, Department of Labor, Office of Economic Opportunity, private foundations, and other organizations.

DIALOG FILE DATA

Inclusive Dates:	September 1967 to 1976
Update Frequency:	Bimonthly (approximately 1250 citations a year)
File Size:	17,000 citations, as of September 1976

ORIGIN

The Center for Vocational Education
The Ohio State University
1960 Kenny Road
Columbus, Ohio 43210

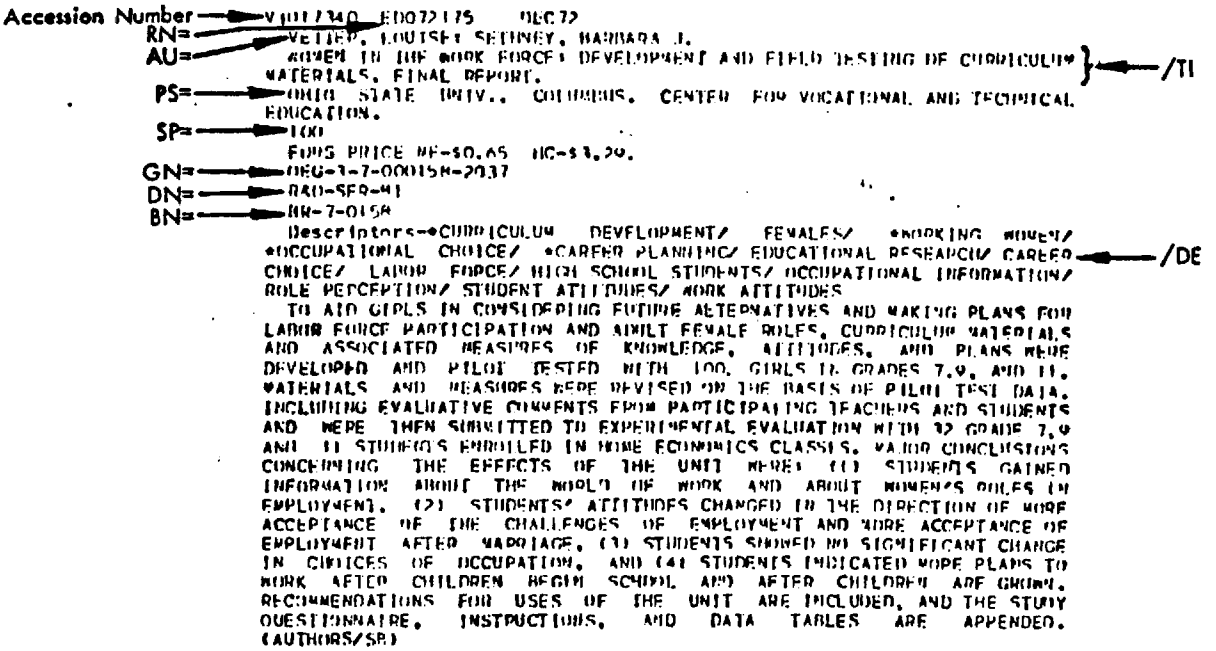
Telephone: 614/486-3655

*Trademark Reg. U.S. Pat. & Trademark Office.

FILE 9

AIM/ARM
DIALOG FILE 9

SAMPLE RECORD



Accession Number — VT011340 ED072175 DEC72
RN= — VETTER, LOUISE; SETHNEY, BARBARA J.
AU= — WOMEN IN THE WORK FORCE: DEVELOPMENT AND FIELD TESTING OF CURRICULUM MATERIALS. FINAL REPORT. } — /TI
PS= — OHIO STATE UNIV., COLUMBUS. CENTER FOR VOCATIONAL AND TECHNICAL EDUCATION.
SP= — 100
EDRS PRICE MF-$0.65 HC-$3.29.
GN= — OEG-3-7-000158-2037
DN= — R&D-SER-81
BN= — BR-7-0158
Descriptors-*CURRICULUM DEVELOPMENT/ FEMALES/ *WORKING WOMEN/ *OCCUPATIONAL CHOICE/ *CAREER PLANNING/ EDUCATIONAL RESEARCH/ CAREER CHOICE/ LABOR FORCE/ HIGH SCHOOL STUDENTS/ OCCUPATIONAL INFORMATION/ ROLE PERCEPTION/ STUDENT ATTITUDES/ WORK ATTITUDES — /DE

TO AID GIRLS IN CONSIDERING FUTURE ALTERNATIVES AND MAKING PLANS FOR LABOR FORCE PARTICIPATION AND ADULT FEMALE ROLES, CURRICULUM MATERIALS AND ASSOCIATED MEASURES OF KNOWLEDGE, ATTITUDES, AND PLANS WERE DEVELOPED AND PILOT TESTED WITH 100 GIRLS IN GRADES 7,9, AND 11. MATERIALS AND MEASURES WERE REVISED ON THE BASIS OF PILOT TEST DATA, INCLUDING EVALUATIVE COMMENTS FROM PARTICIPATING TEACHERS AND STUDENTS AND WERE THEN SUBMITTED TO EXPERIMENTAL EVALUATION WITH 32 GRADE 7,9 AND 11 STUDENTS ENROLLED IN HOME ECONOMICS CLASSES. MAJOR CONCLUSIONS CONCERNING THE EFFECTS OF THE UNIT WERE: (1) STUDENTS GAINED INFORMATION ABOUT THE WORLD OF WORK AND ABOUT WOMEN'S ROLES IN EMPLOYMENT, (2) STUDENTS' ATTITUDES CHANGED IN THE DIRECTION OF MORE ACCEPTANCE OF THE CHALLENGES OF EMPLOYMENT AND MORE ACCEPTANCE OF EMPLOYMENT AFTER MARRIAGE, (3) STUDENTS SHOWED NO SIGNIFICANT CHANGE IN CHOICES OF OCCUPATION, AND (4) STUDENTS INDICATED MORE PLANS TO WORK AFTER CHILDREN BEGIN SCHOOL AND AFTER CHILDREN ARE GROWN. RECOMMENDATIONS FOR USES OF THE UNIT ARE INCLUDED, AND THE STUDY QUESTIONNAIRE, INSTRUCTIONS, AND DATA TABLES ARE APPENDED. (AUTHORS/SB)

RETRIEVAL METHODS

SUBJECT OR TEXT SEARCHING			
SUFFIX	FIELD NAME	EXAMPLES	
None	Basic Index	E FEMALES	S WOMEN
/DE	Descriptor[1]	E ATTITUDES	S WORK ATTITUDES
/ID	Identifier[1]	E OHIO	S CHICAGO/ID
/TI	Title	E TESTING	S WORK(W)FORCE/TI

[1] Also /DE*, /ID*, /DF, /IF, /DF*, /IF*.

CODE SEARCHING			
PREFIX	FIELD NAME	EXAMPLES	
AC=	Area Code	E AC=52	S AC=08
AU=	Author	E AU=SETHNIE	S AU=VETTER, LOUISE
BN=	Bureau Number	E BN=BR-5	S BN=BR-7-0158
CN= or GN=	Contract Number or Grant Number	E CN=OEC-0-70	S GN=OEG-3-7-000158-2037
DN=	Document Number	E DN=AC61	S DN=R&D-SER-81
GC=	Group Code	E GC=520 (TESTS)	(EXPAND only)
IS=	Journal Announcement	E IS=AIM	S IS=ARM V.6NO27
JO=	Journal Name	E JO=FEDERAL REGISTER	S JO=LAND ECONOMICS
PS=	Program Sponsor	E PS=CHICAGO	S PS=OHIO STATE?
RN=	Report Number	E RN=ED080784	S RN=ED072175
SC= or SP=	Sponsor Code or Sponsoring Program	E SC=AHP	S SP=100
UD=	Update	E UD=0802	S UD=0807

LIMITING		
SUFFIX	FIELD NAME	EXAMPLES
/MAJ	Major Descriptor or Identifier	L29/MAJ
/MIN	Minor Descriptor or Identifier	L18/MIN

FORMATS AVAILABLE

Format 1	Accession Number
Format 2	Short Citation
Format 4	Abstract
Format 5	Full Record
Format 6	Title and Accession Number

DIALOG* INFORMATION RETRIEVAL SERVICE

NICEM

FILE DESCRIPTION

The National Information Center for Educational Media (NICEM) comprehensively acquires and encodes information on nonprint media covering all levels of education and instruction beginning with pre-school and ranging to postgraduate level materials in all academic areas. Adult education, professional level, teacher education, and materials specifically directed to industrial training and education are also included. The following nonprint educational media are covered: 16mm films, 35mm filmstrips, overhead transparencies, video tapes, audio tapes, phonograph records, 8mm motion cartridges, and slides and slide sets. (¶ 46.1)

SUBJECT COVERAGE

All subject categories that apply to any level of academic sophistication and learning are included. Some examples of heavily covered subject areas are: (¶ 46.2)

- Psychology
- Vocational and Technical Education
- Health and Safety Education
- Environmental Studies

SOURCES

NICEM acquires information from: (¶ 46.3)

- Library of Congress
- Producers and distributors of nonprint materials
- Media centers and libraries

DIALOG FILE DATA (¶ 46.4)

Inclusive Dates:	1964 to the present
Update Frequency:	each subfile is updated separately on an irregular basis; entire file reloaded every two years
File Size:	300,000 citations, as of August 1977

ORIGIN

NICEM is produced by and questions concerning file content should be directed to: (¶ 46.5)

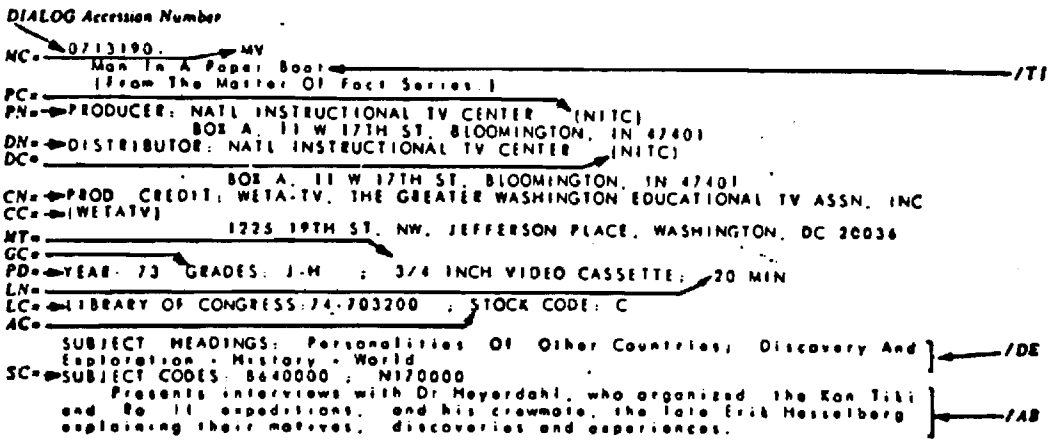
National Information Center for Educational Media
University of Southern California
University Park
Los Angeles, CA 90007

Telephone: 213/741-6681

*Trademark Reg. U.S. Pat. & Trademark Office

NICEM
DIALOG FILE 46

SAMPLE RECORD



RETRIEVAL METHODS

(¶ 46.6)

SUBJECT OR TEXT SEARCHING			
PAGE	SUFFIX	FIELD NAME	EXAMPLES
46-3	None	Basic index (Title, Descriptor, Abstract)	E BOAT S EXPEDITION?
			S HEYERDAHL(C)EXPLORATION
46-3	/TI	Title	S PAPER(W)BOAT/TI
46-4	/DE	Descriptor[1]	S EXPLORATION(F)WORLD/DE
46-5	/AB	Abstract	S KON(W)TIKI/AB

[1]/DF retrieves single-word descriptors.

CODE SEARCHING				
PAGE	PREFIX	FIELD NAME	EXAMPLES	
46-8	AC=	Stock or Color Code	E AC=B	S AC=C
46-10	CC=	Credit Code	E CC=AVCORP	S CC=WETATV
46-10	CN=	Credit Name	E CN=WETA	S CN=WETA-TV?
46-10	DC=	Distributor Code	E DN=AIMS	S DC=NITC
46-10	DN=	Distributor Name	E DN=ANCHOR	S DN=NATL INSTRUCTIONA?
46-9	GC=	Grade Level	E GC=C	S GC=J-H
46-11	LC=	LC Catalog Number	E LC=74	S LC=74-703200
46-10	LN=	Length	E LN=90 FRS	S LN=20 MIN
46-7	MC=	Media Code	E MC=FS	S MC=MV
46-8	MT=	Media Type	E MT=FILMSTRIP	S MT=3/4 INCH VIDEO?
46-10	PC=	Producer Code	E PC=BHAWK	S PC=NITC
46-11	PD=	Publication Date	E PD=76	S PD=73
46-10	PN=	Producer Name	E PN=BLACKHAWK	S PN=NATL INSTRUCTIONA?
46-5	SC=	Subject Heading Code	E SC=B64	S SC=N170000
46-11	UD=	Update	E UD=77	S UD=7705R

LIMITING			
PAGE	SUFFIX	FIELD NAME	EXAMPLES
46-11	None	DIALOG Accession Number (ranges by media type)	LIMIT 3/0300001-0399999

DIRECT ACCESS			
PAGE	PREFIX	FIELD NAME	EXAMPLES
46-14	None	DIALOG Accession Number	TYPE 0713190 DISPLAY 0713190/5

FORMATS AVAILABLE

(¶ 46.7)

PAGE	NUMBER	RECORD CONTENT
46-13	Format 1	DIALOG Accession Number
	Format 2	Full Record Except Abstract
	Format 3	Bibliographic Citation
	Format 4	Abstract
	Format 5	Full Record
	Format 6	Title with Subtitle and Media Code

NB: Page numbers refer to detailed discussions in *Guide to DIALOG — Databases*

DIALOG* INFORMATION RETRIEVAL SERVICE
COMPENDEX

FILE DESCRIPTION

The COMPENDEX database is the machine-readable version of *The Engineering Index*®, which provides the engineering and information communities with abstracted information from the world's significant engineering and technological literature. COMPENDEX provides worldwide coverage of the journal literature, publications of engineering societies and organizations, papers from the proceedings of conferences, and selected government reports and books.

(¶ 8.1)

SUBJECT COVERAGE

COMPENDEX is an interdisciplinary index to the world's engineering developments, including the following subject areas:

(¶ 8.2)

- Civil, Environmental, Geological and Biological Engineering
- Electrical, Electronics and Control Engineering
- Chemical, Agricultural and Food Engineering
- Mining, Metals and Fuel Engineering
- Mechanical, Automotive, Nuclear and Aerospace Engineering
- Industrial and Management Applications

SOURCES

Publications from around the world are indexed, among which are the following types:

(¶ 8.3)

- Approximately 1800 journals
- Publications of engineering societies and organizations
- Approximately 1000 works from conferences, symposia, etc.
- Selected government reports and books

DIALOG FILE DATA

(¶ 8.4)

Inclusive Dates:	January 1970 to the present
Update Frequency:	Monthly (about 7,000 citations per month)
File Size:	Over 550,000 records, as of April 1977

ORIGIN

COMPENDEX is produced by Ei and questions concerning file content should be directed to:

(¶ 8.5)

Mr. John W. Carrigy, Manager
Magnetic Tape Sales
Engineering Index, Inc. (Ei)
345 East 47th Street
New York, NY 10017

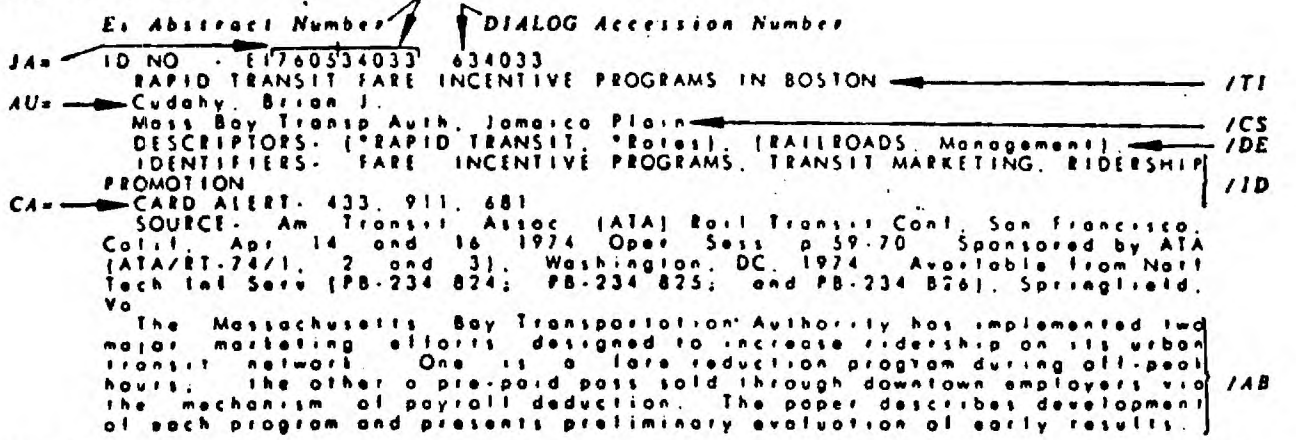
Telephone: 212/644-7600

*Trademark Reg. U.S. Pat. & Trademark Office.

FILE 8.

COMPENDEX
DIALOG FILE 8

SAMPLE RECORDS



RETRIEVAL METHODS

(¶ 8.6)

SUBJECT OR TEXT SEARCHING			
PAGE	SUFFIX	FIELD NAME	EXAMPLES
8-3	None	Basic Index (includes Abstract, Corporate Source, Descriptor, Identifier, Title)	S RIDERSHIP S MARKETING(C)TRANSIT S OFF(W)PEAK(F)REDUCTION S RAPID(W)TRANSIT S RAPID TRANSIT(L)RATES
8-7	/AB	Abstract	S PRE(W)PAID(W)PASS/AB
8-8	/CS	Corporate Source	S MASS(W)BAY/CS
8-4	/DE	Descriptor	S RAILROADS/DE
8-6	/ID	Identifier	S FARE(W)INCENTIVE/ID
8-3	/TI	Title	S BOSTON(F)TRANSIT/TI

[1]Also DE*, DF, DF* [2]Also IF

CODE SEARCHING				
PAGE	PREFIX	FIELD NAME	EXAMPLES	
8-9	AU=	Author	E AU=CUDAHY	S AU=CUDAHY, BRIAN J.
8-8	CA=	Card-Alert Codes	E CA=430	S CA=433
8-9	CO=	CODEN	E CO=JNU	S CO=JNUMAM
8-10	JA=	Journal Announcement	E JA=76	S JA=7605
8-10	UD=	Update	E UD=7601	S UD=9999

LIMITING			
PAGE	SUFFIX	FIELD NAME	EXAMPLES
8-10	None	Accession Number	L4/500001-699999
8-11	/MAJ	Major Heading or Subheading	L18/MAJ
8-11	/MIN	All occurrence except Major Heading or Subheading	L17/MIN

DIRECT ACCESS				
PAGE	PREFIX	FIELD NAME	EXAMPLES	
8-13	None	DIALOG Accession Number	TYPE 706720/6	DISPLAY 706720/5

FORMATS AVAILABLE

(¶ 8.7)

PAGE	NUMBER	RECORD CONTENT
8-12	Format 1	DIALOG Accession Number
	Format 2	Full Record Except Abstract
	Format 3	Bibliographic Citation
	Format 5	Full Record
	Format 6	Title, Source, and Ei Abstract Number

NB: Page numbers refer to detailed discussions in *Guide to DIALOG — Databases*

INSPEC

DIALOG INFORMATION RETRIEVAL SERVICE

FILE DESCRIPTION

INSPEC (Information Services in Physics, Electrotechnology, Computers and Control) corresponds to the three *Science Abstracts* printed publications: *Electrical and Electronics Abstracts, Computer and Control Abstracts,* and *Physics Abstracts.* The *Science Abstracts* family of abstract journals commenced publication in 1898. Today it forms the largest English-language database in the fields of physics, electrical engineering, electronics, computers, and control engineering. Non-English language source material is also included, but abstracted and indexed in English. INSPEC, File 13, is the current file which includes records from 1978 to the present. File 12 is the backfile which includes records from 1969 to 1977.

Each record includes a summary abstract. Author abstracts are used when available.

SUBJECT COVERAGE

The principal subject areas are indicated by major headings below, used with the INSPEC files:

- Atomic and Molecular Physics
- Computer Programming and Applications
- Computer Systems and Equipment
- Condensed Matter: Electrical, Magnetic, and Optical Properties
- Condensed Matter: Structure, Thermal, and Mechanical Properties
- Control Technology
- Electrical and Magnetic Devices
- Electromagnetics, Optics and Circuits
- Electronic Engineering
- Gases, Fluid Dynamics, and Plasmas
- General Topics
- Elementary Particle Physics
- Instruments and Measurement
- Interdisciplinary Subjects
- Information/Communication Science and Engineering
- Mathematics and Mathematical Physics
- Nuclear Physics
- Power Systems and Applications

SOURCES

Journal papers, conference proceedings, technical reports, books, patents, and university theses are abstracted and indexed for inclusion in the INSPEC database. The number of journals scanned regularly is approximately 2300; over 330 of these are abstracted completely.

DIALOG FILE DATA

	File 12	File 13
Inclusive Dates:	1969-1977	1978-present
Update Frequency:	Closed file	Monthly (approximately 15,000 records per month)
File Size:	1,126,133 records	490,000 records as of December 1980

ORIGIN

INSPEC is produced by the Information Division of the Institution of Electrical Engineers (IEE). Questions concerning file content should be directed to either of the following offices:

INSPEC Marketing Department
IEEE Service Center
445 Hoes Lane
Piscataway, NJ 08854
USA
Telephone: 201/981-0060

INSPEC Tape and Online Services
IEE
Station House, Nightingale Road
Hitchin Herts SG5 1RJ
England
Telephone: 0462 53331
Telex: 825962

(Revised February 1981)

INSPEC
DIALOG FILES 12, 13

SAMPLE RECORD

DIALOG Accession Number

```
SF=  0249373   C79022216                                          AN=
     WHICH MICROPROCESSOR SYSTEM FOR THE BEGINNER? CRITICAL FACTORS FOR THE CHOICE  /TI
AU=  RUNGE, H.
JN=  FUNKSCHAU (GERMANY)   VOL.50, NO.26   1338-9   15 DEC. 1978   Coden: FUSHA2   CO=
TC=  Treatment: PRACTICAL APPLIC                                                   PY=
DT=  Document Type: JOURNAL PAPER
LA=  Language: GERMAN
     DESCRIBES SOME OF THE MAIN CHARACTERISTICS OF HOME COMPUTER PACKAGES AT
   PRESENT AVAILABLE. THE READER IS WARNED AGAINST ONE PARTICULAR OFFERING, WHICH  /AB
   REQUIRES EXPENSIVE EXTRA EQUIPMENT AND GIVES POOR VALUE IN OTHER RESPECTS
     Descriptors: PERSONAL COMPUTING; MICROCOMPUTERS; COMPUTER SELECTION AND  /DE
   EVALUATION
     Identifiers: CHOICE; CHARACTERISTICS; HOME COMPUTER PACKAGES; VALUE;  /ID
   MICROPROCESSOR SYSTEM
     Class Codes: C7830
```

SEARCH OPTIONS

BASIC INDEX

SUFFIX	FIELD NAME	EXAMPLES
None	Basic Index (Includes Abstract, Descriptor, Identifier, and Title)	E MICROPROCESSOR S POOR(W)VALUE
/AB	Abstract	S HOME(W)COMPUTER/AB
/DE	Descriptor[1]	S PERSONAL COMPUTING/DE
/ID	Identifier[2]	S CHOICE/ID
/TI	Title	S MICROPROCESSOR(F)SYSTEM?/TI

[1]Also DF.
[2]Also IF.

ADDITIONAL INDEXES

PREFIX	FIELD NAME	EXAMPLES	
AN=	Abstract Number	E AN=A77087732	S AN=C79022216
AU=	Author	E AU=AAGAARD	S AU=RUNGE, H?
BN=	International Standard Book Number (ISBN)	E BN=0 9505171	S BN=0 08 021031 7
CC=	Class Code	E CC=A9260G	S CC=C7830
CL=	Conference Location	E CL=BUCHAREST	S CL=PALO(W)CL=ALTO
CO=	CODEN	E CO=MFRUAZ	S CO=FUSHA2
CS=	Corporate Source	E CS=AGARD	S CS=MCCLELLAN?
CT=	Conference Title[3]	E CT=ACOUSTICAL	S CT=ACOUSTIC?
CY=	Conference Year	E CY=197	S CY=1979
DT=	Document Type	E DT=BOOK CHAPTER	S DT=JOURNAL PAPER
JN=	Journal Name	E JN=FUNKSCHAU	S JN=ACTA ASTRON?
LA=	Language	E LA=DUTCH	S LA=GERMAN
PA=	Patent Assignee[3,4]	E PA=SAGE	S PA=BRITISH(W)PA=LEYLAND
PI=	Patent Country[3,4]	E PI=UK	S PI=USA
PN=	Patent Number[3,4]	E PN=30	S PN=3521524
PU=	Publisher[3]	E PU=ACADEMIC	S PU=ACADEMIC(W)PU=PRESS
PY=	Publication Year	E PY=1977	S PY=1978
RN=	Report Number	E RN=AGARD	S RN=AD-168654
SF=	Subfile	E SF=A	S SF=C
TC=	Treatment Code	E TC=A	S TC=APPLIC?
UD=	Update[5]	E UD=8014	S UD=9999

[3]File 12 only.
[4]Patents discontinued December 1976.
[5]File 13 only.

T=
Book
book chapter
nonpaper Paper
nonpaper Proceedings
essentially
Journal Paper
Journal
Report
Report Section

LIMITING

SUFFIX	FIELD NAME	EXAMPLES
None	DIALOG Accession Number	LIMIT 6/038241-999999
/ENG	English Language	LIMIT 1/ENG
/FRN	Non-English Language	LIMIT 3/FRN
/ART	Article	LIMIT 5/ART
/NAR	Non-Article	LIMIT 6/NAR

FORMAT OPTIONS

NUMBER	RECORD CONTENT	NUMBER	RECORD CONTENT
Format 1	DIALOG Accession Number	Format 5	Full Record
Format 2	Full Record except Abstract	Format 6	Title, DIALOG Accession Number, and INSPEC Abstract Number
Format 3	Bibliographic Citation	Format 7	Bibliographic Citation and Abstract
Format 4	Abstract and Title	Format 8	Title and Indexing

DIRECT RECORD ACCESS

PREFIX	FIELD NAME	EXAMPLES	
None	DIALOG Accession Number	TYPE 408329/8	PRINT 394977/5

METADEX

DIALOG INFORMATION RETRIEVAL SERVICE

FILE DESCRIPTION

The METADEX (Metal Abstracts/Alloys Index) database, produced by the American Society for Metals (ASM) and The Metals Society (London), provides comprehensive coverage of international metals literature. The database corresponds to the printed publications: *Review of Metal Literature* (1966-67), *Metals Abstracts* (1968 to the present), and *Alloys Index* (1974 to the present). The *Metals Abstracts* portion of the file includes references to about 1,200 primary journal sources. *Alloys Index* supplements *Metals Abstracts* by providing access to the records through commercial, numerical, and compositional alloy designations; specific metallic systems; and intermetallic compounds found within these systems. Add Steels Supplement 1983

Informative abstracts are included for most records since 1979.

SUBJECT COVERAGE

In addition to specialized topics (including specific alloy designations, intermetallic compounds, and metallurgical systems), six basic categories of metallurgy are covered:

- Materials
- Processes
- Properties
- Products
- Forms
- Influencing Factors

SOURCES

Each month about 3,000 new documents from a variety of international sources are scanned and abstracted for the ASM database, with intensive coverage of appropriate journals, conference papers, reviews, technical reports, and books. Dissertations, U.S. patents, and government reports have been included since 1979.

DIALOG FILE DATA

Inclusive Dates:	1966 to the present; *Alloys Index*, 1974 to the present
Update Frequency:	Monthly (approximately 3,000 records per month)
File Size:	~~405,000~~ 515,000 records as of ~~October 1980~~ May 1983

ORIGIN

METADEX is produced by Metals Information, a joint service of the American Society for Metals and The Metals Society. Questions concerning file content should be directed to:

~~Ed Kaminski~~ Paul Urban
Manager, Information Services
American Society for Metals
Metals Park, OH 44073

Telephone: 216/338-5151
TELEX: 980-619 METALEX-MTPK

FILE 32 METADEX

DIALOG FILE 32

SAMPLE RECORD

DIALOG Accession Number: 7041311 80-310380

AN- Eighteen Carat Gold Alloys. /TI
AU- Taimsalu, P PY-.
JN- Aurum ,Mar. 1979, 1, (1), 6-10
LA- Language: ENGLISH

Eighteen carat colored Au alloys enjoy a particularly high reputation among the many different Au alloys used in the fabrication of jewelry because of their tarnish resistance and outstanding mechanical properties. The latter are such that the addition of Zn or other metals to modify the properties of the basic ternary Au--Ag--Cu alloys is not normally necessary. The and properties of these alloys are therefore determined by the relative proportions of Ag and Cu which they contain. Some of the published on the changes in the physical and mechanical properties of 18 carat alloys, as the ratio of Ag to Cu is varied, are reviewed. By relating this ratio to color, it is possible to make some predictions as to how an alloy of a given color would behave during fabrication. The characteristics reviewed are color, specific gravity, liquidus and solidus temp., hardness and annealing characteristics, tensile strength, yield strength, elongation ductility and Erichsen numbers for sheet ductility.--AA /AB

Descriptors: Gold base alloys, Mechanical properties; Silver; Alloying elements; Copper, Alloying elements; Density; Tensile properties; Ductility /DE
CC-
ES- Alloy Index: Ag-Au-Cu; AG / /ID
SH- Section Heading: 31 (MECHANICAL PROPERTIES) Journal Announcement: 8002 JA- /SH

SEARCH OPTIONS

BASIC INDEX

SUFFIX	FIELD NAME	EXAMPLES
None	Basic Index (Includes Abstract, Descriptor, Identifier, Section Heading, and Title)	E DUCTILITY S TENSILE(W)STRENGTH
/AB	Abstract[1]	S SPECIFIC(W)GRAVITY/AB
/DE	Descriptor[2]	S DENSITY/DE
/ID	Identifier (Alloys Index)[3]	S AG-AU-CU/ID
/SH	Section Heading	S MECHANICAL(W)PROPERTIES/SH
/TI	Title	S EIGHTEEN(W)CARAT/TI

[1]Beginning 1979.
[2]Also /DF.
[3]Beginning 1974.

ADDITIONAL INDEXES

PREFIX	FIELD NAME	EXAMPLES	
AD=	Application Date[1]	E AD=20 DEC	S AD=9 SEPT. 1977
AN=	ASM Abstract Number	E AN=68-720026	S AN=80-310380
AU=	Author	E AU=FONER	S AU=TAIMSALU, P
CC=	Alloy Class Code[3,4]	E CC=ZN	S CC=AG
CL=	Conference Location[1]	E CL=AACHEN	S CL=ANAHEIM, CA?
CN=	Alloy Class Name[3]	E CN=ZINC BASE	S CN=INTERMETALLIC?
CS=	Corporate Source[1]	E CS=BECKMAN	S CS=UNION(W)CS=CARBIDE
CY=	Conference Year[1]	E CY=1979	S CY=1980
DT=	Document Type	E DT=BOOK	S DT=ARTICLE
ES=	Element Symbol[3]	E ES=NB	S ES=AG(W)ES=CU
GN=	Group Number[3]	E GN=A1	S GN=B4
JA=	Journal Announcement	E JA=79	S JA=8002
JN=	Journal Name	E JN=ACTA CHEM	S JN=AURUM
LA=	Language	E LA=RUSSIAN	S LA=GERMAN
PI=	Periodic Index Term[3]	E PI=TU	S PI=AIDBTI
PN=	Patent Number[1]	E PN=US	S PN=US4116687
PU=	Publisher[1]	E PU=SPRINGER	S PU=ACADEMIC
PY=	Publication Year	E PY=1980	S PY=1979
SH=	Section Heading Code	E SH=12	S SH=31
SN=	International Standard Serial or Book Number (ISSN or ISBN)[1]	E SN=0005-2303	S SN=0044-1856
UD=	Update	E UD=8009	S UD=9999

[4]Also searchable in Basic Index as /ID.

LIMITING

SUFFIX	FIELD NAME	EXAMPLES
None	DIALOG Accession Number	LIMIT 3/650001-999999
/ENG	English Language	LIMIT 6/ENG
/FRN	Non-English Language	LIMIT 5/FRN

FORMAT OPTIONS

NUMBER	RECORD CONTENT	NUMBER	RECORD CONTENT
Format 1	DIALOG Accession Number	Format 6	Title and DIALOG Accession Number
Format 2	Full Record except Abstract	Format 7	Bibliographic Citation and Abstract[5]
Format 3	Bibliographic Citation	Format 8	Title and Indexing
Format 4	Abstract[5] and Title	Format 9	DIALOG Accession Number and ASM Abstract Number
Format 5	Full Record[5]		

[5]Abstracts for 1979 records forward.

DIRECT RECORD ACCESS

PREFIX	FIELD NAME	EXAMPLES	
None	DIALOG Accession Number	TYPE 6627282/2	PRINT 7041315

BOOK REVIEW INDEX

DIALOG INFORMATION RETRIEVAL SERVICE

FILE DESCRIPTION

BOOK REVIEW INDEX (BRI) contains references to more than 1,000,000 reviews of approximately 500,000 distinct book and periodical titles. The file dates from 1969 to the present and covers every review published in 300-400 periodicals and newspapers. Each record includes author and title of work being reviewed, journal name, date of review, volume number, and page number. Document type indications are also included if the work is a children's book, periodical, reference work, or young adult book. BOOK REVIEW INDEX corresponds to the printed publication of the same name.

SUBJECT COVERAGE

BRI offers a broad subject coverage due to the range of sources indexed. It covers works in the social sciences, humanities, sciences, business, fine arts, and general interest areas.

SOURCES

Approximately 400 periodicals and newspapers are currently indexed by BRI (retrospective coverage varies). Periodicals indexed range from the *Harvard Business Review* to the *Center for Children's Books: Bulletin*, from the *American Scholar* to *Psychology Today*. General interest magazines such as *Ms.*, *Time*, *New Yorker*, and *Atlantic Monthly* are covered, as are specialized periodicals like *Flying*, *Yachting*, and *National Genealogical Society Quarterly*.

DIALOG FILE DATA

Inclusive Dates:	1969 to the present
Update Frequency:	Three times per year
File Size:	Citations to approximately 1,160,000 reviews of 560,000 works as of May 1982

ORIGIN

BOOK REVIEW INDEX is produced by the Gale Research Company. Questions concerning file content should be directed to:

John Schmittroth
Gale Research Company
Book Tower
Detroit, MI 48226

Telephone: 313/961-2242, ex. 266

No special terms or conditions.

(May 1982)

BOOK REVIEW INDEX

DIALOG FILE 137

SAMPLE RECORD

DIALOG Accession Number
000903
Abigail Adams: An American Woman /TI
AU= AKERS, Charles W
JN= Reviewed in : Booklist v76 753 Feb 1 1980 PY=
DT= Document Type: Young adult book

SEARCH OPTIONS

BASIC INDEX

SUFFIX	FIELD NAME	EXAMPLES	
None	Basic Index (Includes Title)	E AMERICA	S MEDIEVAL(W)JAPANESE
/TI	Title	S ABIGAIL(W)ADAMS	

ADDITIONAL INDEXES

PREFIX	FIELD NAME	EXAMPLES	
AU=	Book Author	E AU=OATES	S AU=AKERS, CHARLES W
DT=	Book Type	E DT=CHILDREN	S DT=YOUNG ADULT BOOK
JN=	Journal Name	E JN=BOOKLIST	S JN=TIMES LITERARY SUPPLEMENT
PY=	Publication Year (of Review)	E PY=1982	S PY=1980
UD=	Update	E UD=8201	S UD=9999

LIMITING

The LIMIT command is not applicable in File 137.

SORTING

SORTABLE FIELDS	EXAMPLES
Online (.SORT) and offline (PRINT). AU, JN, PY, TI.	.SORT 2/1-173/AU PRINT 2/5/1-173/AU/PY

FORMAT OPTIONS

NUMBER	RECORD CONTENT
Format 1	DIALOG Accession Number
Format 2 or 5	Full Record
Format 3	Title, Author, Journal, and Publication Year
Format 6	Title and DIALOG Accession Number

DIRECT RECORD ACCESS

FIELD NAME	EXAMPLES		
DIALOG Accession Number	TYPE 002791/2	DISPLAY 002832/5	PRINT 000903/5

INTERNATIONAL SOFTWARE DATABASE

DIALOG INFORMATION RETRIEVAL SERVICE

FILE DESCRIPTION

The INTERNATIONAL SOFTWARE DATABASE (ISD) is a database of computer software produced by Imprint Software Ltd. Software vendors throughout the world contribute information to the ISD about their available programs and packages.

Software listed in the ISD is classified and searchable by machine, operating system, application, vendor, and price. Program listings in the ISD include a full description, date of release, warranty indication, related programs to a package, availability of source codes and updates, special configurations required, compatible systems, minimum memory required, distribution medium, and price. Vendor information includes address and phone number, payment terms, distributors, and overseas agents, if any. In addition, references to independent reviews are included where available.

SUBJECT COVERAGE

The ISD covers the following major areas of software:

- Commercial
- Educational
- Industrial
- Personal
- Professional
- Scientific
- Specific Industries
- Systems

SOURCES

Information about the software listed in the ISD is derived from questionnaires distributed to key software houses throughout the world. These forms are regularly updated and reviewed.

DIALOG FILE DATA

Inclusive Dates:	1973 to the present
Update Frequency:	Monthly reload
File Size:	Approximately 10,000 records as of December 1982

ORIGIN

The INTERNATIONAL SOFTWARE DATABASE is produced by Imprint Software Ltd. Questions concerning file content should be directed to:

Aneta Diekroger
Imprint Software Ltd.
1520 South College Avenue
Fort Collins, CO 80524

Telephone: 800/525-4955
303/482-5000

Any software listed in the ISD may be ordered directly from Imprint Software's One Stop Soft Shop at 800/525-4955 or via DIALORDER™ using .ORDER ONESTOP.

INTERNATIONAL SOFTWARE DATABASE

DIALOG FILE 232

SAMPLE RECORD

DIALOG Accession Number

```
VN: 001992 / 3844450 ——————————————————————— PN:
    PURCHASE LEDGER ——————————————————————— /TI
AV: GRAHAM DORIAN SOFTWARE LTD
    17 THE GALLOP
AD: YATELY, CAMBERLEY
    ENGLAND
TE: TERMS: CASH WITH ORDER OR COD
AV: Distributors: UK DEALERS SELL PROGRAMS
DI: Distributors for: SELVES ONLY ——————————— SO:
    APPLE II/48K/300.00L/636.00$/IMPLIED ——— SY:
    APPLE II+/48K/300.00L/636.00$/IMPLIED ——— MN:
/ID APPLE III/48K/300.00L/636.00$/IMPLIED ——— PR:
    CPM 2.2/5 1/4 DISKETTE/48K/300.00L/636.00$ — SS:
    CPM 2.2/8 DISKETTE/48K/300.00L/636.00$ ——— ME:
CC: Country of Currency: BRITAIN
LA: Language: CP/M C Basic 2   Source Code Available: YES ——— SA:
IP: Integrated Packaging: YES   Name of Package: GDSS Bus Pkg ——— PK:
UP: Updates: NO
    Special Configurations: Printer, C Basic 2
WA: Warranty: YES
    An "on-line" system eliminating batching. An entry to this package
    automatically updates the nominal ledger and/or stock control and/or job
    costing packages. Capabilities include: enter, look-up or change supplier,
    supplier list, entering supplier invoices, cash flow analysis, writing
    remittance advices and cheques, cheque register, and vat accounting. Fully
    documented, easy to operate, menu driven, information is fully displayed on
    screen. A program is used to set up the entire package to user's
    specifications. One 8" single density disk accomodates 300 suppliers and
    1000 open invoices. ——————————————————— /AB
DC: 143 COMMERCIAL/INVOICING/BILLING ——————————— /DE
```

SEARCH OPTIONS

BASIC INDEX

SUFFIX*	FIELD NAME	EXAMPLES
/AB	Abstract	S METERWISE/AB
/DE	Descriptor[1]	S COMPUTER ASSISTED INSTRUCTION/DE
		S INVOICING,BILLING/DE
/ID	Identifier (System Listings)[2]	S APPLE II/ID
		S CPM(W)2(W)2/ID
/TI	Title	S PURCHASE WRITER/TI

*If no suffix is specified all Basic Index fields are searched.
[1]Also /DE.
[2]Also /IE.

ADDITIONAL INDEXES

PREFIX	FIELD NAME	EXAMPLES	
AD=	Address of Vendor	E AD=CAMBERLEY	S AD=COLUMBIA, MD
			S AD=SAN(W)JOSE
AV=	Availability (Vendor or Distributor)	E AV=UK	S AV=GUAM(W)AV DORIAN
CC=	Country of Currency	E CC=BRITAIN	S CC=UNITED STATES
DC=	Descriptor Code	E DC=143	S DC=638
DI=	Distributor for	E DI=APPLE	S DI=SELVES(W)DI=EARLY
IP=	Integrated Packaging Indicator	E IP=NO	S IP=YES
LA=	Programming Language	E LA=COBOL	S LA=BASIC(W)LA=2
ME=	Distributor Medium	E ME=8 DISKETTE	S ME=5 1/4 DISKETTE
MM=	Minimum Memory Required	E MM=48K	S MM=IM:MM=16K
PD=	Release Date	E PD=82	S PD=820800
PK=	Package Name	E PK=BLACKBOARD	S PK=GDSS(W)PK=BUS?
PN=	International Standard Program Number (ISPN)	E PN=3860450	S PN=3844450
PR=	Price (U.S. equivalent)	E PR=000100	S PR=000650
PY=	Release Year	E PY=1977	S PY=1981:PY=1982
SA=	Source Code Availability	E SA=NO	S SA=YES
SO=	Manufacturer[3]	E SO=APPLE	S SO=ALPHA MICRO
			S SO=DIGITAL(W)SO=RES?
SS=	Subsystem[3]	E SS=LEVEL II	S SS=2(W)SS=2
			S SS=LSI-2
SY=	System[3]	E SY=II	S SY=ACS 8000
			S SY=PDP(W)SY=11
TE=	Terms of Sale	E TE=VISA	S TE=COD
UP=	Update Availability	E UP=NO	S UP=YES
VN=	Vendor Number	E VN=2236	S VN=3846
WA=	Warranty Availability	E WA=NO	S WA=YES
ZP=	Zip Code or Postal Code of Vendor	E ZP=943	S ZP=94303

[3]Also searchable in the Identifier (/ID) field of the Basic Index.

LIMITING

The LIMIT command is not applicable in File 232.

SORTING

SORTABLE FIELDS	EXAMPLES
Online (SORT) and offline (PRINT): PD, PY, PN, TI, ZP.	SORT 6/1-22/PR PRINT 4/5/1-16/ID,D

FORMAT OPTIONS

FORMAT	RECORD CONTENT	FORMAT	RECORD CONTENT
Format 1	DIALOG Accession Number	Format 5	Full Record
Format 2	Full Record except Abstract	Format 6	Title, Program Number, and DIALOG Accession Number
Format 3	Title and Vendor Information	Format 7	Title, Vendor Information, and Abstract
Format 4	Abstract and Title	Format 8	Title and Indexing

DIRECT RECORD ACCESS

FIELD NAME	EXAMPLES		
DIALOG Accession Number	TYPE 001992/3	DISPLAY 002233/7	PRINT 003457/5

MICROCOMPUTER INDEX

DIALOG INFORMATION RETRIEVAL SERVICE

FILE DESCRIPTION

MICROCOMPUTER INDEX contains citations to the literature on the use of microcomputers in business, education, and the home. Magazine articles, as well as software and hardware reviews, new product announcements, and book reviews are included. The database is produced by Microcomputer Information Services and corresponds to the quarterly printed publication of the same name.

Records in MICROCOMPUTER INDEX include abstracts, and a controlled vocabulary is used for subject indexing.

SUBJECT COVERAGE

MICROCOMPUTER INDEX provides broad coverage of the subject, including the following:

- Hardware Reviews
- Software Reviews
- Book Reviews
- New Products
- Education (all levels)
- Business Applications
- Interfaces
- Videotex
- Games
- Hardware Construction
- Word Processing
- Specific Microcomputers (Apple, TRS-80, PET, Atari, etc.)
- Programming Instruction
- Programming Languages
- Graphics
- Mathematics
- Utility Programs

SOURCES

Over 25 English-language microcomputer periodicals are indexed cover-to-cover in MICROCOMPUTER INDEX. In addition, other publications dealing with microcomputers are scanned for inclusion in the file.

DIALOG FILE DATA

Inclusive Dates:	January 1981 to the present
Update Frequency:	Monthly (approximately 700 records per month)
File Size:	9,000 records as of December 1982

ORIGIN

MICROCOMPUTER INDEX is produced by Microcomputer Information Services. Questions concerning file content should be directed to:

Joe Ward
Microcomputer Information Services
2464 El Camino Real, Suite 247
Santa Clara, CA 95051

Telephone: 408/984-1097

MICROCOMPUTER INDEX

DIALOG FILE 233

SAMPLE RECORD

DIALOG Accession Number
AN= 030396 8147169
Tax preparation for CP/M systems /TI
AU= Heintz, Carl
JN= Interface Age , Dec 1981 , v6 n12 p46-49 , 3 pages ISSN 0147-2992 SN= PY=
LA= Languages: English
DT= Document Type: Software Review
GL= Geographic Location: United States
A favorable review for the Federal and State Tax Preparation system by Microcomputer Taxsystems. Review describes a set of programs that allows the accountant to prepare federal and state returns for individuals and partnerships. /AB
Descriptors: *Software Review; *Business; *Taxes; *CP/M /DE
Identifiers: Federal and State Tax Preparation System; Microcomputer Tax Systems /ID

SEARCH OPTIONS

BASIC INDEX

SUFFIX*	FIELD NAME	EXAMPLES
/AB	Abstract	S STATE(W)TAX?/AB
/DE	Descriptor[1]	S TEXT EDITOR/DE S INPUT(W)OUTPUT/DE
/ID	Identifier[2]	S MICROCOMPUTER TAX SYSTEMS/ID S TAX(W)PREPARATION/ID
/PR	Program Listing	S LITTLE(W)ADA/PR
/TI	Title	S CP(W)M/TI

*If no suffix is specified all Basic Index fields are searched.
[1]Also /DF.
[2]Also /IF.

ADDITIONAL INDEXES

PREFIX	FIELD NAME	EXAMPLES	
AN=	MICROCOMPUTER INDEX Accession Number	E AN=8204007	S AN=8147169
AU=	Author	E AU=HEINTZ, C	S AU=MAUCHLY, B?
DT=	Document Type	E DT=LETTER	S DT=SOFTWARE REVIEW
GL=	Geographic Location	E GL=JAPAN	S GL=NEW ZEALAND S GL=PUERTO(W)GL=RICO
JN=	Journal Name	E JN=INTERFACE AGE	S JN=APPLE ORCHARD
LA=	Language	E LA=ENGLISH	S LA=FRENCH
PD=	Publication Date	E PD=8202	S PD=820215
PY=	Publication Year	E PY=1981	S PY=1982
SN=	International Standard Serial Number (ISSN)	E SN=0731-9258	S SN=0147-2992
UD=	Update	E UD=8212	S UD=9999

LIMITING

SUFFIX	FIELD NAME	EXAMPLES
None	DIALOG Accession Number	LIMIT 4/030396-999999
/ENG	English Language	LIMIT 8/ENG
/NONENG	Non-English Language	LIMIT 6/NONENG

SORTING

SORTABLE FIELDS	EXAMPLES
Online (.SORT) and offline (PRINT). AU, JN, PD, TI.	.SORT S/1-29/AU PRINT 8/5/1-79/JN/PD,D

FORMAT OPTIONS

NUMBER	RECORD CONTENT	NUMBER	RECORD CONTENT
Format 1	DIALOG Accession Number	Format 5	Full Record
Format 2	Full Record except Abstract	Format 6	Title and Accession Numbers
Format 3	Bibliographic Citation	Format 7	Full Record except Indexing
Format 4	Abstract and Title	Format 8	Title and Indexing

DIRECT RECORD ACCESS

FIELD NAME	EXAMPLES		
DIALOG Accession Number	TYPE 030396/5	DISPLAY 030111/8	PRINT 020543/7

308, 309, 320, 310, 311

CA SEARCH

DIALOG INFORMATION RETRIEVAL SERVICE

FILE DESCRIPTION

CA SEARCH combines the condensed version of *Chemical Abstracts* with controlled vocabulary CA General Subject Headings and CAS Registry Numbers each with its modifying phrase. Related general subject terminology from the *CA Index Guide* is also included. Chemical substances are represented by CAS Registry Numbers. Corresponding substance information may be searched in the DIALOG chemical substance files such as DIALOG CHEMNAME (File 301).

SUBJECT COVERAGE

The literature of chemistry and its applications is divided into the following principal areas:

- Applied Chemistry
- Biochemistry and Biology
- Chemical Engineering
- Classes of Substances
- Macromolecular Chemistry
- Organic and Inorganic Chemistry
- Physical and Analytical Chemistry
- Properties and Reactions

SOURCES

The following sources are included in CA SEARCH: journal articles, patents, reviews, technical reports, monographs, conference and symposium proceedings, dissertations, and books.

DIALOG FILE DATA

Collective

Accession Numbers	Update Frequency	File Size
66000001-75157995	Closed file	1,314,655 records
76000001-85201798	Closed file	1,772,194 records
86000001-91222077	Closed file	1,275,366 records
92000001-95231484	Closed file	926,314 records
96000001-	Biweekly (approximately 34,000 records per month)	173,647 records as of June 1, 1982

al Abstracts Service. Questions concerning file content should be

Telephone: 800/848-6533 (toll-free in U.S.)
614/421-6940 (in Ohio)

(Revised July 1982)

CA SEARCH
DIALOG FILES 308, 309, 320, 310, 311

SEARCH OPTIONS

BASIC INDEX

SUFFIX	FIELD NAME	EXAMPLES
None	Basic Index (Includes Descriptor, Identifier, CA Section Title, and Title)	S LIGHT(W)MICROSCOPE S FOOD(F)CHEMISTRY S GLUTEN(S)DETN S ANTIARRHYTHMICS
/DE	Descriptor[1]	S FOOD ANALYSIS/DE S GLUTEN(W)ADDITIVE/DE
/ID	Identifier[2]	S RN=80161-80-4(L)METHYLATION S DIMETHYL(W)AMINOALKYL/ID
/SH	CA Section Title	S FOOD 'AND' FEED CHEMISTRY/SH S ALKALOIDS/SH
/TI	Title	S 1(W)10(W)DIMETHYLOXAYOHIMBANE/TI
/FF	Full Term (any field)	S OXAYOHIMBANE/FF

[1]Also /DF. [2]Also /IF.

ADDITIONAL INDEXES

PREFIX	FIELD NAME	EXAMPLES	
AC=	Application Country	E AC=EUROPEAN PATENT	S AC=BELGIUM
AD=	Application Date	E AD=810117	S AD=800109
AN=	Application Number	E AN=EP 81870002	S AN=BE 8810
AU=	Author	E AU=MOSS	S AU=HANNART, J?
CL=	Patent Classification	E CL=C07D-491/22	S CL=C07D-491/22J
CO=	CODEN	E CO=EPXXDW	S CO=STTEAW
CS=	Corporate Source	E CS=OMNICHEM	S CS=BREAD(F)CS=INST?
DC=	Designated Country[3]	E DC=BE	S DC=FR
DR=	Designated Region[3]	E DR=CH	S DR=NL
DT=	Document Type	E DT=DISSERTATION	S DT=BOOK
EC=	Elected Country[3]	E EC=FI	S EC=HU
ER=	Elected Region[3]	E ER=GB	S ER=DE
GS=	General Subject Heading	E GS=GLUTENS	S GS=FOOD ANALYSIS S GS=ALKALOIDS
JA=	Journal Announcement	E JA=CA09603	S JA=CA09613
JN=	Journal Name	E JN=TETRAHEDRON	S JN=STAIN TECHNOL.
LA=	Language	E LA=SERBO-CROATIAN	S LA=FRENCH
PA=	Patent Assignee	E PA=HOECHST A.-G.	S PA=OMNICHEM(F)PA=S(F)PA=A
PC=	Patent Country	E PC=FU	S PC=EP
PD=	Patent Date	E PD=810001	S PD=810729
PN=	Patent Number	E PN=US 4181545	S PN=EP 32889
PU=	Publisher	E PU=UNIV. ARIZONA	S PU=ACADEMIC PRESS
PY=	Publication Year	E PY=1981	S PY=1982
RN=	CAS Registry Number	E RN=2353-45-9	S RN=77330-25-7P
RP=	Report Number	E RP=NASA-CR-161078	S RP=AAEC/E507
SC=	CA Section Code	E SC=CA117	S SC=CA131005
SN=	International Standard Serial Number (ISSN)[4]	E SN=0730-9554	S SN=0038-9153
UD=	Update[5]	E UD=09608	S UD=9999

[3]From January 1982 forward.
[4]From January 1978 forward. [5]File 311 only.

LIMITING

SUFFIX	FIELD NAME	EXAMPLES
None	DIALOG Accession Number	LIMIT 12/94000000-94999999
/ENG	English Language	LIMIT 4/ENG
/FRN	Non-English Language	LIMIT 8/FRN
/PAT	Patent Records	LIMIT 15/PAT
/NPT	Non-Patent Records	LIMIT 3/NPT

SORTING

SORTABLE FIELDS	EXAMPLES
Online (.SORT) and offline (PRINT). AU, CO, CS, PY.	.SORT 8/1-56/CO/PY PRINT 15/5/1-23/AU

FORMAT OPTIONS

NUMBER	RECORD CONTENT	NUMBER	RECORD CONTENT
Format 1	DIALOG Accession Number (CA Vol. and Abs. No.)	Format 5	Full Record
Format 2	Bibliographic Citation and Keyword Phrase(s)	Format 6	Title and Bibliographic Source Reference
Format 3	Bibliographic Citation	Format 8*	Title and Keyword Phrase(s) and Indexing (No accession number)
Format 4	Title and Indexing	Format 9	CA Citation Number

*No online TYPE or DISPLAY charge.

DIRECT RECORD ACCESS

FIELD NAME	EXAMPLES		
DIALOG Accession Number	TYPE 96102591/8	DISPLAY 96020345/3	PRINT 96117047/5

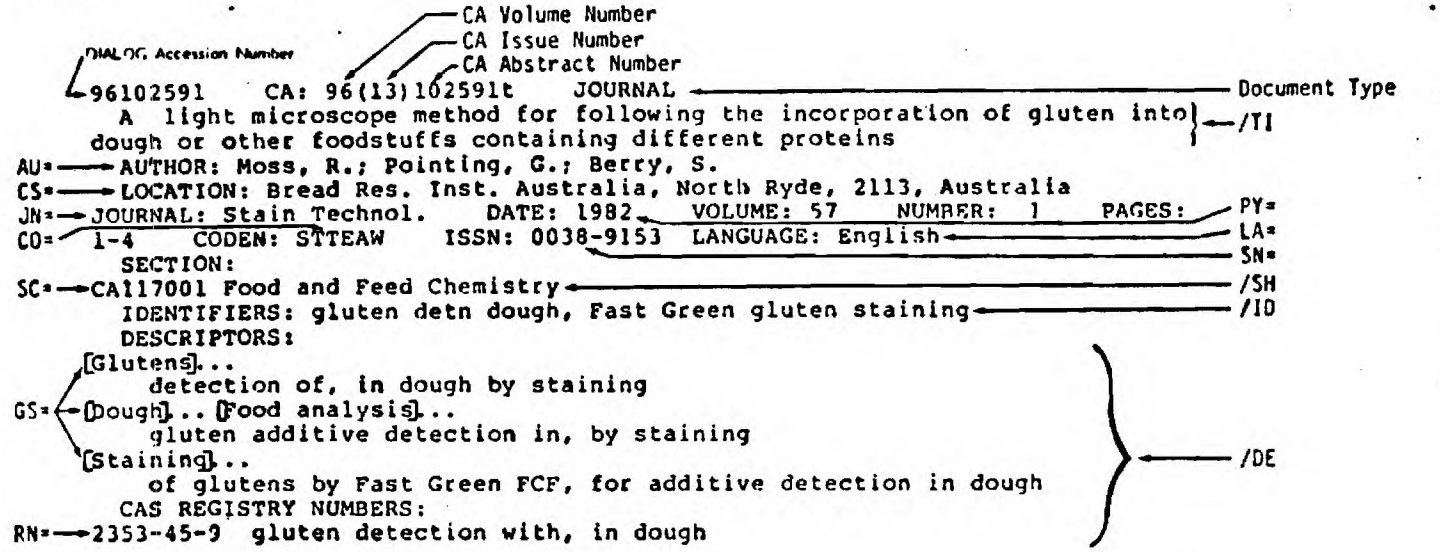
(Revised July 1982)

CA SEARCH

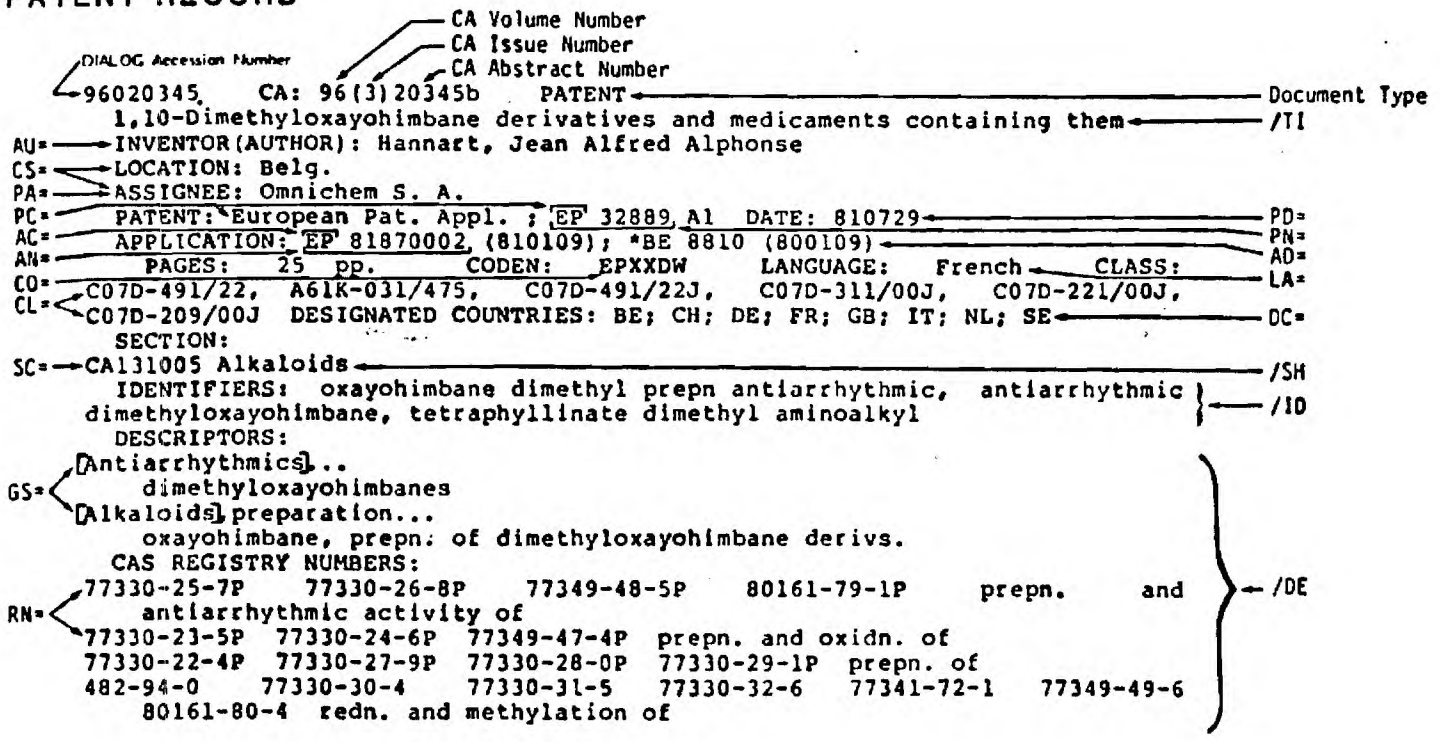
DIALOG FILES 308, 309, 320, 310, 311

SAMPLE RECORDS

JOURNAL RECORD



PATENT RECORD



APPENDIX B-11

MANAGING CURRICULUM AND INSTRUCTION

KOREAN PROFESSORS TRAINING PROGRAM

A G E N D A

December 19, Monday

9:30 - 9:45	Orientation	Paul Scott
9:45 - 10:15	Introduction and Overview of Vocational Education in Georgia	Paul Scott
10:15 - 10:30	Break	
10:30	Overview of School Management in Georgia	George L. O'Kelley, Jr.
11:30	Lunch	
1:00 - 2:00	Analyzing Occupations: Purposes and Procedures	John Scott
2:00 - 2:15	Break	
2:15 - 3:30	Program continued	

KOREAN PROFESSORS TRAINING PROGRAM

A G E N D A

December 20, Tuesday

9:00 - 9:30	Problem Solving	Ira Dickerson
9:30 - 10:15	Supervised Occupational Experience Programs	
10:15 - 10:30	Break	
10:30 - 11:30	FFA Activities	Thomas Weaver
11:30	Lunch	
1:00 - 1:20	Introduce a Lesson	Joe Hill
1:20 - 2:00	Introduction of Objectives	Joe Hill
2:00 - 2:15	Break	Joe Hill
2:15 - 3:00	Utilizing Objectives	Joe Hill
3:00 - 3:15	Summarize a Lesson	Joe Hill
3:15 - 3:30	Review of Day	Joe Hill and Ira Dickerson

KOREAN PROFESSOR'S TRAINING PROGRAM

A G E N D A

December 21, Wednesday

9:30 - 9:45	Orientation to Teaching Techniques	Lester Sanders
9:45 - 10:15	Review of Instructional Techniques	Lester Sanders
10:15 - 10:30	Break	
10:30 - 11:30	Utilizing Instructional Aids	Lester Sanders
11:30 - 1:00	Lunch	
1:00 - 2:00	Preparing Teacher-Made Materials	Lester Sanders
2:15 - 3:15	Application Exercises	Lester Sanders
3:15 - 3:30	Summary and Review	Lester Sanders

KOREAN PROFESSORS TRAINING PROGRAM

A G E N D A

December 22, Thursday

9:30 - 11:30	Planning the Curriculum, Overview Statement	Paul Scott
(30 min.)	Establishing the Philosophical Base	
10:15 - 10:30	Break	
(30 min.)	Setting Missions and Priorities	
(30 min.)	Specifying Program Objectives	
(30 min.)	Summary and Review of Sessions 1, 2 and 3	
11:30	Lunch	
1:00 - 1:45	Specifying Student Objectives	
1:45 - 2:15	Analyzing Learning Required to Master	
2:15 - 2:30	Break	
2:30 - 3:00	Sequencing the Tasks	
3:00 - 3:30	Introduction to Task detailing	

KOREAN PROFESSORS TRAINING PROGRAM

A G E N D A

January 3, Tuesday

9:30 - 10:15	Selecting Appropriate Content (Materials/Media)	Paul Scott
10:15 - 10:30	Break	
10:30 - 11:00	Storing and Retrieving Collected Materials and Media	Paul Scott
11:00 - 11:30	(a) Screening Materials from other Sources	Paul Scott
	(b) Developing Instructional Materials, Instructional Sheets, Slide/Tapes	Paul Scott
	(c) Selecting Student Learning Activities	Paul Scott
11:30	Lunch	
1:00 - 1:30	Review Session	Paul Scott
1:30 - 2:00	Evaluating the Instructional Materials	Paul Scott
2:00 - 2:15	Break	
2:15 - 2:45	Installing the Curriculum for Continuous Use	Paul Scott
2:45 - 3:15	Evaluating the Output of the Curriculum	Paul Scott
3:15 - 3:30	Summary and Review of Sessions	Paul Scott

KOREAN PROFESSORS TRAINING PROGRAM

A G E N D A

January 5, Thursday

9:30 - 10:30	Describing the Data Base for Planning Facilities	John Scott
10:30 - 10:45	Break	
10:45 - 11:15	Planning the Physical Layout, Shape, Space, Size	John Scott
11:15 - 11:30	Identifying and Obtaining Equipment, Machines and Supplies	John Scott
11:30	Lunch	
1:00 - 2:00	Places, Equipment, Machines and Work Station Apparatus	Jim Rosebrook
2:00 - 2:15	Break	
2:15 - 2:45	Identifying and Placing Utilities	Jim Rosebrook
2:45 - 3:30	Making Scaled Layouts	John Scott

KOREAN PROFESSORS TRAINING PROGRAM

A G E N D A

January 6, Friday

9:30 - 10:30	Managing the Facilities Overview	Jim Rosebrook
10:30 - 10:45	Break	
10:45 - 11:15	Using a Student Personnel System	Jim Rosebrook
11:15 - 11:30	Keeping Records	John Scott
11:30	Lunch	
1:00 - 2:00	Maintaining a Safe Working Environment	Hoyt Sappe'
2:00 - 2:15	Break	
2:15 - 2:45	Establishing an Equipment Maintenance Program	Jim Rosebrook
2:45 - 3:30	Managing "Live Work" Materials	John Scott

APPENDIX B-12

AUDIOVISUAL SCRIPT FORMAT

Audiovisual Script Format

PROGRAM TITLE

SCRIPT NUMBER	COPYWRITER	LENGTH	DATE	PAGE NO.

VIDEO	AUDIO
1) 아틀란타의 소개 연수가 실시된 조지아 텍은 미국 동남부의 산업 경제 문화의 중심이며 미주 항공교통의 요충인 조지아 주의 수도인 아틀란타에 위치하고 있읍니다. 아틀란타는 190여만의 인구를 가진 대도시로서 애팔래치아 산맥의 발끝에 자리잡고 있는 평균고도 300여 미터의 나무 많고 공기 맑은 아름다운 도시 입니다.	Georgia Tech, where this training program has been taking place, is located in Atlanta, GA, which is a central city of South Eastern part of the United States of America. This city, on the toe of the Appalachian Mountains, is one of the largest cities of the United States of Amarica, with population of 2 million and surrounded by luxuriant forest and fresh air.
이곳 아틀란타는 미국의 다른 대도시와는 달리 최근 인구의 증가추세를 보이고 있는 발전하는 도시로서 주변의 공업단지가 빠른 속도로 성장하고 있고 공장 건설이 괄목할만한 곳이며 특히 시내 중심가의 건물구조와 형태는 미래의 도시를 연상케하는 건축미의 도시이기도 합니다.	Atlanta is a developing city, having rapidly growing industries and a stylish city of modern architectures towards futuristic illusion.
조지아 주의 수도는 최초에 애틀스 위치하였으나 몇차례의 변화를 쳐 지금의 아틀란타에 옮겨졌읍니다 전부청사의 황금빛 돔은 20여 그램의 순금으로 덮여 있읍니다.	Golden dome of the Capital Hall is a symbol of forever prosperity of Georgia, center of culture, education, industry and economy of southern America.

Audiovisual Script Format

PROGRAM TITLE				
SCRIPT NUMBER	COPYWRITER	LENGTH	DATE	PAGE NO.

VIDEO	AUDIO
1) 조지아텍은 1885년 농업위주의 남부지역에 최초로 세워진 공업기술 교육기관으로 1888년 124명의 학생으로 첫강의가 시작된 이래 100여년에 걸친 발전으로 1983년현재 26개학부과정과 30개 대학원과정에 13000여명의 재학생이 있으며 특히 15개 부설 연구기관에서 수행하는 각분야의 연구활동에 매년 7천만불의 연구비가 책정된 연구하는 대학입니다. 이곳의 도서관에는 170만권의 장서와 140만종의 자료가 소장되어 있으며 진 도서목록의 전산화를추진하고 있읍니다.	When the Georgia Institute of Technology opened its classroom wit 129 mechanical students in 1888, the concept of a technological education was still new to the South's largely agricutural socity Today, more than twelve thousand students are working toward undergraduate and graduate degrees in Tech's twenty-three schools and colleges. As the South's largest industrial and engineering research agency, with annual research budget of 76 million dollar Georgia Tech has contributed extensively to such diverse fields a energy conservation, artifical intelligence, submillimeter waves and composite fiber structures.
조지아텍은 1955년부터 교육, 연구, 행사관리를 위한 전산실을 운영하여 왔으며 1981년에사이버74와 CDC6400 시스템이 연결 설치되었고 그다음해인 82년에는 IBM4341이 설치되었읍니다. 이와 별도로 각학과마다 중형 컴퓨터가 설치되고 있으며 모든 연구실에 터미날과 개인 컴퓨터가 활용되어지고 있읍니다. 또한 학생은 자유로이 컴퓨터를 이용할 수 있으므로 학습의 효과를 높일수있는 CAI 학습이 실시되고 있읍니다.	The office of Computer Services provides a wide range of computin services for education, research, and administration. Since 1955 this centralized service facility has operated a variety of systems. In 1981 a Control Data Corporation Cyber 170/760 and Cyber 74 and a CDC 6400. Early in 1982, an IBM4341 system was installed running MVS operating system. Many schools, department and administrative offices have their own minicomputers in addition to interactive and remote batch terminals providing aces to the central facility.
각학과의 실험실습시설은 학습목표에 따라 교수진에의해 설계 제작되어 운영하는 경우가 많으며 기타 대부분의 기자재는 산업체로 부터 기증받는경우가 많습니다. 산학협력교육은 재학생이 기업체로 현장에 근무하는 "코-업"시스템으로서 효과적인 운영이 가능합니다.	Many equipments of laboratory are donated by corporations and if instructional objectives are special, these appanatuses are specially designed. Tech offers a plan of five year cooperative students who wish to combine practical experience with technical theory.

Audiovisual Script Format

PROGRAM TITLE

SCRIPT NUMBER	COPYWRITER	LENGTH	DATE	PAGE NO.

VIDEO	AUDIO
11) 한편, 급속히 발전하고있는 최신 공학기술을 교육에 도입시키기위하여 최신기자재를 끊임없이 보완구비하고 있으며 모든학생은 졸업전에 하나의 완전한 개별 연구프로젝트를 완성하여 제출하여야 합니다.	The newest equipments added to present laboratory continiously t introduce an advanced technology into practical education. Students should complete their individualized study project for graduation.
9) 조지아 텍의 학생활동은 대학신문 발행, 대학년감 출판, 대학방송운영 등의 홍보활동과 여학생 중심의 활동, 미식축구, 농구등의 체육활동, 직업안내, 학생회관운영, 학생회운영 등의 활동이 있읍니다.	Student life of Georgia Tech consists of several activities coordinated by the Dean of Student, as community services, student publication and radio, women's program, minority education development, placement services, student government, et
1) 특히, 매년 11월에 개최되는 홈 커밍 데이는 졸업한 동문이 모두 캠퍼스에 다시모여 우정과 추억을 나누며 재학생은 선배를 통하여 사회의 경험을 얻게되고, 다양한 가장행렬, 각종 운동경기등의 행사가 펼쳐지는등 축제 분위기가 온 캠퍼스에 가득 넘치는 한해중 가장 큰 학생행사중의 하나입니다.	One of these students activities is "Home Coming Day". Most of alumnae and alumni get together on campus to share friendship and retrospection of student life on this gala day.
) 연수과정의 시작은 미국의 생활에 신속히 적응할수 있도록 집중적인 2주간의 어학연수로 부터 실시되었으며 이과정은 기본적인 영문구성, 기술영어, 영작문, 생활영어, 청취력 향상 등의 과목으로 구성되었읍니다.	The training program is began with two-weeks intensive English course to make all members of training group become familiar with American life immediately. Composed of English sentence structure, Technical English, Writing, Listening Comprehension, and Living English Conversation.

Audiovisual Script Format

PROGRAM TITLE

SCRIPT NUMBER	COPYWRITER	LENGTH	DATE	PAGE NO.

VIDEO	AUDIO
1) 특히, 어학실습실의 활용을 통해 교육효과를 높일 수 있었으며 미국의 사회제도, 문화, 생활양식을 배움으로서 차후 연수과정수행에 커다란 도움이 되었읍니다.	Practical English lab makes our English competency become higher Social structure, culture and life style of America learned accompanying with language courses are very useful to work in training programs.
2) 전공분야 연수의 시작은 아틀란타에서 북쪽으로 40킬로미터 가량 떨어진 써던 테크니칼 인스티튜트에서 실시되었읍니다. 이곳 써던 텍은 테크니션 및 테크놀로지스트 양성을 교육목적으로 하는 4년제 공과대학으로서 학생의 입학시 아무 때나 원하는 학기에 가능하고, 2년 또는 4년의 수학과정을 선택할 수 있는 "투 플러스 투" 시스템의 교육과정을 가지고 있는 대학입니다.	The Southern Technical Institute at Marrietta offers us a technical training course. Southern Tech is a four-year technical college for education of technologist and technician and students can register at any quarter they want. It has both of two-year associate degree course and four-year bachelor course, so-called two-plus-two system.
이곳에서는 각학과별 교육과정계획을 도표화하고, 이에따른 교수요목을 각학기로서 배치하여 모든학생들이 미리 학습계획을 수립할 수 있게 해놓았읍니다. 17개 학사과정 과 11개 준학사과정에 3000여명의 재학생이 있는 이곳에서는 영어, 수학, 물리과목의 능력이 뒤떨어지는 학생에게는 별도의 보충학습과정을 필수로 이수토록하며 전반적인 교육과정의 특징은 학문중심의 이론교육보다는 실기중심의 교육이 위주로 구성되어 실제 산업현장에 유용한 기술인력을 배출하는데 주력하고 있는 것이 조지아텍과는 다른 점이었읍니다.	Students of Southern Tech can make a learning sequence with syllabus of each course filed and diagrammed at each department. The Developmental course is offered for students who are weak in English, Mathematics and physics. A remarkable characteristic of whole curriculum is more special emphasis on practical skills than theoritical knowledge to produce competent technical manpower for industries.

Audiovisual Script Format

PROGRAM TITLE

SCRIPT NUMBER	COPYWRITER	LENGTH	DATE	PAGE NO.

VIDEO	AUDIO
14) 써던 텍의 컴퓨터 센터에서는 학생 학습용으로 캘콤플로터 1039를 갖추고 있었고 오전 8시부터 오후 12시까지 모든 학생들에게 컴퓨터센터를 개방하며 아울러 학사기록및 업무용으로 DEC PDP 1170 컴퓨터를 활용하고 있었읍니다.	Calcom Plotter 7039 is installed at Southern Tech computer cente for education and students can use it from 8:00 a.m. to 12:00 at night. DEC PDP 1170 is operated for the purpose of academic records and administration.
5) 이곳에서도 역시 수많은 자체제작된 기자재를 실험 실습에 활용하고 있었으며 실험 실습시설관리를 학생자율에 의해 운영하고 있었읍니다.	Large portion of lab inventory is designed and made by faculties to fit to learning objectives and effective practice and these laboratories are being managed by self-control and by students.
), 써던 텍에서의 연수과정은 전자공학일반, 전기기계, 토목.건축기술 및 컴퓨터 시스템과 컴퓨터에 의한 학습 등으로 구성되어 있었으며 이론강의에 실제적인 실험실습이 병행실시되었읍니다	Technical training program at Southern Tech consists of general electronic engineering technology, electrical machinery technology, civil and architechture engineering, computer technology and computer aided instruction in both way of lecture and laboratory work.
1) 이울러, 산업공학및 의사소통기술에 관한 연수도 실시되었으며 각 학과별 실험실습시설및 기자재의 운영과 효과적인 활용방안 교과과정과의 연관성 등의 정보와 교육자료를 습득할수 있었읍니다.	In addition, special lectures for decision making and communicaton skill are taken place. Informations and related materials of curriculum and syllabus with job sheets for practical laboratory works for effective technical education are prepared.

Audiovisual Script Format

PROGRAM TITLE				
SCRIPT NUMBER	COPYWRITER	LENGTH	DATE	PAGE NO.

VIDEO	AUDIO
13) 많은 부분의 강의는 시청각자료에 의해 실시되어 연수효과를 증대시킬수 있었으며 이러한 시청각 학습방법은 교육효과 뿐만 아니라 학습동기유발의 중요한 요소중의 하나임을 인식하게 되었읍니다.	Audio - visual aids can make instruction effective and bring strong motivation for learning. Most of technical training program are audio-visual instructions using overhead projector, slide projector and film projector.
14) 강의와 실습을 통하여 이론과 실기를가르치게되며 이에 병행하여 학습한 이론과 실기가 응용되어지는 산업현장을 견학함으로서 교육효과를 얻을수 있을 것입니다.	Lecture for theory to know and laboratory work for skill to trai are accompanying with field trips where students can recognize the real world of theory and skills to enhance educational effectiveness.
10) 전자공학일반연수에 병행하여 RCA 통신위성지구국의 견학이 실시되었읍니다. 이곳은 아틀란타 지역의 유선 TV 중계, 장거리통신, 데이터베이스 시스템등에 이용되는 RCA의 통신위성을 위한 지구국입니다	Field trip to RCA Saterllite Earth Station is a part of electronic engineering technology to have an experience of high technology and its application. This station is operated for cable TV, distant communication and data base system of Atlanta area.
11) 이곳은 석탄과 석유를 병용하는 화력발전소로서 조지아주 전체에 전력을공급하는 조지아 파워전력회사 산하의 화력발전소중의 하나이며 20만킬로왓트의 발전능력을 갖고 있읍니다. 이외에도 록히드 항공사의 비행기 조립공장, 수력발전소 등 여러 산업체를 견학함으로서 미국의 산업구조의 단면을 접할수있었읍니다.	McDonough Power Plant is visited as a part of electrical machinary technology course. Georgia Power supplies electricity to whole Georgia State area. This plant is one of power plant system of Georgia Power with capacity of 200 thousand kilo watts During technical training program at Southern Tech, we visited many plant as Lockheed, Alatoona Power plant and so on to get an idea of American industrial society.

Audiovisual Script Format

PROGRAM TITLE				
SCRIPT NUMBER	COPYWRITER	LENGTH	DATE	PAGE NO.

VIDEO	AUDIO
22) 직무수행능력위주의 직업교육과 고도 산업사회지향적인 기술교육 과정구성에 관한 연수가 실시된 조지아 주립대학은 아틀란타 중심가에 위치한 학생수 2만여명의 인문 사회과학대학으로서 특히 직업교육 분야와 경영학 부야 등이두드러진 곳입니다.	Georgia State University where training program for performance based vocational education and high technology curriculum toward highly industrialized society is taking place is located at downtown of Atlanta and has its twenty thousand students.
23) 직업기술교육 교육과정의 기본자료는 직무분석 결과 도출된 직무능력으로서 이것이 학습목표로 설정될경우에 실제적인 직업교육 실시가 가능할것 입니다. 또한 산업사회의 변화에 능동적으로 대처할수있는 테크니션을 양성하기 위해서는 고도의 기술에 적응하기위한 기초과학 과목에 주력하는 교육과정의 개발방안에 대한 연수가 실시되었읍니다.	Vocational performances as results of occupational analysis are basis of learning objectives in performance based vocational education to develop effective and practical curriculm of vocational education. It is important for technicians to have knowledge of basic science as mathematics and physics to adjust to rapidly developing technology and industry.
) 특히, 유니버시티 오브 조지아의 교수진 으로 구성된 별도의 연수과정 에서는 교육과정과 교수법, 교수재료 제작, 활용등에 관하여 중점적으로 연수하였으며 이곳을 방문하여부설 미국직업교육자료협회에서 많은 교육 자료를 구할수 있었읍니다.	Particularly, faculties of Division of Vocational Education of University of Georgia make presentation for management of curriculm, teaching method, instruction materials, audio-visual instruction and preperation of these materials. From American Association of Vocational Instructional Materials at University of Georgia, we can obtain lot fo materials for vocational education.

Audiovisual Script Format

PROGRAM TITLE

SCRIPT NUMBER	COPYWRITER	LENGTH	DATE	PAGE NO.

VIDEO	AUDIO
나) 직업기술교육현장을 직접 살펴보기 위하여 방문하였던 픽킨스직업학교는 지역사회 산업구조에 대한 직무분석 결과 얻어진 직무능력에 따라 설정된 학습목표에 의한 개별학습제도를 운영하고 있는 단기직업학교입니다.	Pickens Area Vocational School is a model for individualized instruction of performance based vocational education organized as needs of community and industries.
) 이론교육은 모듈화된 교재에 의해 학생 스스로 학습하도록 구성되어있으며 하나의 학습목표 달성을 위한 각 단계에는 학습활동의 순서와 과정을 명시함으로서 개별학습이 가능하게되어 있고 이론교육에서 교사는 질문에 의한 개별지도, 기초이론에대한 강의, 학습활동관리 학생평가에 빗지 않게 융통성있는 교재 및 학습자료 개선에 노력하고 있읍니다.	Theoritical knowledge is studied by individualized module by student himself. All course is organized by steps which is derived from result of occupational analysis. Role of instructo is mainly management of classroom and learning activities. They should develop and improve instructional materials continuously.
) 실습교육은 완벽한 실습지침서에 의해 진행되어지며 교사는 실습중인 학생을 관찰하며 체크리스트에 의한 평가를 실시하고 모든 평가결과는 해당학생의 확인을 거쳐 강의실에 게시되어 수시로 학습진도상황이 파악될수 있었읍니다.	Practical skill is obtained by practice following job sheets. It is evaluated by instructors through checklists. Every result of evaluation is confirmed by student and filed in classroom.

Audiovisual Script Format

PROGRAM TITLE				
SCRIPT NUMBER	COPYWRITER	LENGTH	DATE	PAGE NO.

VIDEO	AUDIO
8) 한편, 테크니션 수준의 로보트기술 교육과정이 모형교육과정으로서 개발되어 고도기술의 산업구조에 적응할수 있는 기술인력 양성에 선진국의 노력이 대단히 지대하다는 것을 알 수 있었읍니다.	To encourage development of high technology curriculum, the model curriculum for robotics technology is suggested.
9) 특히, 미국의 자동차 산업에서는 자동차 조립공정에 로보트를 활용하여 생산성을 향상시키기 위한 방안이 이미 시행되어진지 오래되었으며, 이에 따라 로보트로 대체되어지는 테크니션에게 로보트 조작, 수리기술을 재훈련 시키고 있었읍니다.	Particularly, use of robotics in automobile plants is deeply considered and taken place to increase productivity. In consequence, retraining program for technician replaced by robotics is being developed.
)조지아 텍에서도 역시 로보트에 대한 연구가 매우 활발히 진행되고 있으며 조지아 텍에서의 응용공학연수과정에서 로보트공학의 기초와 산업체와의 연관성, 앞으로의 개발방향에 관한 연수도 받았읍니다.	Georgia Tech, also, makes effort to research on robotics. As a part of Engineering Experimental Station program, basic technology and relationship with industrial application of robotics is studied for future direction of development of robotics.
)에너지 절약기술 연수에서는 석유에너지 절약을 위한 태양열, 생물 바이오매스 연료, 나무연료 등의 대체연료에 관한 내용이 다루어졌읍니다.	In energy conservation program, solar energy, biomass, wood and coal gasification is presented.

Audiovisual Script Format

PROGRAM TITLE				
SCRIPT NUMBER	COPYWRITER	LENGTH	DATE	PAGE NO.

VIDEO	AUDIO
3-1) 응용공학연수과정의 일환으로 상·하수처리장을 견학하여 식수생산과정과 하수처리에 관한 지식을 얻을 수 있었읍니다.	Dekalb County Water Treatment Plant makes presentation in detail about process and capacity of water treatment and drinkin water production.
3) 연수기간중 방문한 웨스트 조지아 대학은 인문사회과학 분야의 대학으로서 주로 평생교육 프로그램을 중점적으로 운영하고 있었읍니다.	We visited West Georgia College where located at Carrollton, Georgia. This is liberal art college having special continuing education programs.
4) 이곳에서는 다양하고 효과적인 교수방법 및 교수재료 준비에 관한 시범 강의가 실시되어 기초 물리분야의 교수시범이 있었읍니다.	Instructional demonstration on physics is presented to show preparing instructional materials and teaching method and magic to concentrate student to study.
) 웨스트 조지아 대학의 주선으로 방문한 사우드와이어 전선생산 공장입니다.	Southwire Company is visited by intermidiation of West Georgia College. They show their welcome to us hoisting a Korean national flag.
) 이곳은 하니웰 전자회사에서 운영하는 디브라이 공과대학으로 전자공학, 전산기기, 컴퓨터 프로그래밍 등의 학과가 개설된 사립대학으로 미국 전역에 하니웰 전자회사에서 운영하는 이러한 대학이 10여곳이 세워져 있다고 합니다.	This is DeVry College managed under control of Honeywell Company They offer general information of DeVry College system and courses and instructional contents, as electronic engineering, computer devices, computer programming and so forth.

Audiovisual Script Format

PROGRAM TITLE				
SCRIPT NUMBER	COPYWRITER	LENGTH	DATE	PAGE NO.

VIDEO	AUDIO
7) 연수기간중 여가를 이용하여 아틀란타 현지 교민의 주선으로 새로운 미국 문물에 접할수 있는 기회를 갖게되었읍니다. 플로리다 올랜도에 있는 디즈니 월드의 국제관 전경입니다.	Korean association in Atlanta help us to spend spare time durin training program to make tour around Atlanta for us to have an opportunity getting some idea on things American. This is a beautiful scenery of Disney World in Orlando, Florida.
8) 미국의 우주개발역사를 한눈에 볼수있는 플로리다의 케이프 케나베랄의 우주센타 박물관입니다.	This is Space Center Museum at Cape Cannaveral where whole brie history of space development of United States of America is gathered.
9) 테네시주에 있는 지하동굴로서 동굴 끝부분에 높이 100여미터의 수직폭포가 장관을이루고있는 루비 폭포의 모습입니다.	This is Ruby Falls in Tennessee. Beautiful fall makes a marvelous spectacle from hundreds of feet high water columns at the end of cave.
10) 끝으로, 이번 연수가 성공적으로 끝마치게끔 대하여 노력하여주신 조지아 텍및 기타 조지아 주의 여러 학교및 아틀란타 주재 총영사관 과 전교민 여러분께 감사드리며 이러한 해외연수의 기회를 마련해주신 문교당국에 깊은 감사를 드립니다.	All the members of training group heartily appreciate Georgia Tech and other colleges and schools of Georgia help us get fruitful results, Korean Consul General and Korean People in Atlanta.

APPENDIX C-1

EVALUATION SHEETS

EVALUATION SHEET
for
TECHNICAL TRAINING FOR KOREAN TEACHERS

- Please assist us by marking in the proper space your evaluation of the activities presented in this training program.
- Please mark under one of the headings showing letter grades ranging from A through F with A being the best performance and F being the worst. Please also indicate by checking a Yes or No if you think future training should include the same or similar programs.
- Please write under Comments, any statements you want to add.

PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation														
English Language														
Automation/Robotics														
Information Resources														
Engineering Technology/80's (STI)														
Boiler Technology														
Electrical Energy Management														
Waste Heat Recovery														
Audio/Visual														
High-Tech in Occupational Ed. (GSU)														
Vocational Technical (UGA)														
Biomass, Wood, & Coal Gasification														
TRIPS AND TOURS:														
Atlanta Tour														
Galaxy Carpet														
Rockwell International														
Western Electric														
West Georgia College														
World Energy Congress														
Dekalb Water Treatment														
University of Georgia														
FACILITIES:														
Emory Pines														
Graduation														
Translators														
ARA Bus Service														
Industrial Education Support Personnel														

COMMENTS:

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation			✓						✓				✓	
English Language	✓						✓						✓	
Automation/Robotics	✓						✓						✓	
Information Resources			✓						✓				✓	
Engineering Technology/80's (STI)			✓						✓				✓	
Boiler Technology			✓						✓				✓	
Electrical Energy Management	✓						✓						✓	
Waste Heat Recovery		✓						✓					✓	
Audio/Visual	✓						✓						✓	
High-Tech in Occupational Ed. (GSU)	✓						✓						✓	
Vocational Technical (UGA)	✓						✓						✓	
Biomass, Wood, & Coal Gasification				✓						✓				✓
TRIPS AND TOURS:														
Atlanta Tour	✓						✓						✓	
Galaxy Carpet	✓						✓							✓
Rockwell International		✓						✓					✓	
Western Electric		✓						✓					✓	
West Georgia College		✓						✓					✓	
World Energy Congress		✓						✓					✓	
Dekalb Water Treatment	✓						✓						✓	
University of Georgia	✓						✓						✓	
FACILITIES:														
Emory Pines	✓						✓						✓	
Graduation		✓						✓					✓	
Translators		✓						✓					✓	
ARA Bus Service	✓							✓					✓	
Industrial Education Support Personnel	✓							✓					✓	

COMMENTS:

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	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
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Automation/Robotics														
Information Resources														
Engineering Technology/80's (STI)														
Boiler Technology														
Electrical Energy Management														
Waste Heat Recovery														
Audio/Visual														
High-Tech in Occupational Ed. (GSU)														
Vocational Technical (UGA)														
Biomass, Wood, & Coal Gasification														
TRIPS AND TOURS:														
Atlanta Tour														
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West Georgia College														
World Energy Congress														
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	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation														
English Language														
Automation/Robotics														
Information Resources														
Engineering Technology/80's (STI)														
Boiler Technology														
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High-Tech in Occupational Ed. (GSU)														
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Atlanta Tour														
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Western Electric														
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Emory Pines														
Graduation														
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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation		○						○					✓	
English Language		○						○					✓	
Automation/Robotics	○						○						✓	
Information Resources	○						○						✓	
Engineering Technology/80's (STI)			✓						✓				✓	
Boiler Technology	✓						✓						✓	
Electrical Energy Management			○						○				✓	
Waste Heat Recovery				○						○			✗	✓
Audio/Visual	○						○						✓	
High-Tech in Occupational Ed. (GSU)	○						○						✓	
Vocational Technical (UGA)		○							○				✓	
Biomass, Wood, & Coal Gasification			○				○						✓	
TRIPS AND TOURS:														
Atlanta Tour	○						○						✓	
Galaxy Carpet		○						○					✓	
Rockwell International	○						○						✓	
Western Electric		✓						✓					✓	
West Georgia College	○							○					✓	
World Energy Congress	○							○					✓	
Dekalb Water Treatment		○					○						✓	
University of Georgia		○					○						✓	
FACILITIES:														
Emory Pines	○							○					✓	
Graduation		○					○						✓	
Translators			○					○					✓	
ARA Bus Service	○						○						✓	
Industrial Education Support Personnel			○				○						✓	

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation	✓						✓						✓	
English Language		✓						✓					✓	
Automation/Robotics	✓						✓						✓	
Information Resources			✓					✓					✓	
Engineering Technology/80's (STI)	✓						✓						✓	
Boiler Technology				✓						✓				✓
Electrical Energy Management		✓						✓					✓	
Waste Heat Recovery	✓						✓						✓	
Audio/Visual	✓						✓						✓	
High-Tech in Occupational Ed. (GSU)		✓					✓						✓	
Vocational Technical (UGA)	✓		✓				✓						✓	
Biomass, Wood, & Coal Gasification			✓						✓				✓	
TRIPS AND TOURS:													✗	
Atlanta Tour			✓						✓				✓	
Galaxy Carpet	✓						✓						✓	
Rockwell International			✓						✓				✓	
Western Electric			✓						✓				✓	
West Georgia College	✓						✓						✓	
World Energy Congress			✓						✓					✓
Dekalb Water Treatment	✓						✓						✓	
University of Georgia			✓						✓				✓	
FACILITIES:														
Emory Pines	✓						✓						✓	
Graduation		✓						✓					✓	
Translators	✓						✓						✓	
ARA Bus Service	✓						✓						✓	
Industrial Education Support Personnel	✓						✓						✓	

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation		✓						✓					✓	
English Language	✓						✓						✓	
Automation/Robotics	✓						✓						✓	
Information Resources		✓						✓					✓	
Engineering Technology/80's (STI)		✓						✓					✓	
Boiler Technology			✓						✓				✓	
Electrical Energy Management		✓						✓					✓	
Waste Heat Recovery			✓						✓					✓
Audio/Visual	✓						✓						✓	
High-Tech in Occupational Ed. (GSU)	✓						✓						✓	
Vocational Technical (UGA)	✓						✓						✓	
Biomass, Wood, & Coal Gasification			✓						✓				✓	
TRIPS AND TOURS:														
Atlanta Tour	✓						✓						✓	
Galaxy Carpet			✓						✓				X	✓
Rockwell International		✓						✓					✓	
Western Electric		✓						✓					✓	
West Georgia College		✓						✓					✓	
World Energy Congress		✓						✓					✓	
Dekalb Water Treatment	✓						✓						✓	
University of Georgia		✓						✓					✓	
FACILITIES:														
Emory Pines	✓						✓						✓	
Graduation			✓						✓				✓	
Translators				✓						✓			✓	
ARA Bus Service			✓						✓				✓	
Industrial Education Support Personnel	✓						✓						✓	

COMMENTS:

EVALUATION SHEET
for
TECHNICAL TRAINING FOR KOREAN TEACHERS

THE NATIONAL LIBRARY BINDERY CO.
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BUCKRAM (Specify Color by number)

ARRANGE LETTERING AS DESIRED ON SPINE

Roberson—
Korean
Professor
Training

"Please Check"

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	Out	☐
Index	Front	☐
	Back	☐
Ads	In	☐
	Out	☐
Bind Regular Way		☐
Bind Intact		☐
Bind Imperfect		☐
Sample Sent		☐
*Rub on File (at Bindery)		☐
*Keep A Rub (at Bindery)		☐
1st Time Bound By Nat'l		☐
Do Not Trim Edges		☐

Lettering:

Follow Old Spine	☐
Cross Spine	☑
On Front	☐
Lengthwise	☐
Gold	☑
Black	☐
White	☐

Insert Stubs For Missing Pages ☐
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2-

SR259 258

Send two copies of binding slip with volume.
Original slip must accompany volume returned for correction.

6-6-10 3/4

ɔ space your evaluation of the activities

owing letter grades ranging from A through F being the worst. Please also indicate by training should include the same or similar

nts you want to add.

RADE											FUTURE TRAINING	
ENTS					INSTRUCTION						YES	NO
C	D	E	F		A	B	C	D	E	F		
					✓						✓	
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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation		✓						✓					✓	
English Language		✓					✓		✓				✓	
Automation/Robotics	✓						✓						✓	
Information Resources		✓						✓					✓	
Engineering Technology/80's (STI)			✓						✓					✓
Boiler Technology			✓						✓					✓
Electrical Energy Management			✓						✓					✓
Waste Heat Recovery			✓						✓					✓
Audio/Visual	✓						✓						✓	
High-Tech in Occupational Ed. (GSU)	✓						✓						✓	
Vocational Technical (UGA)		✓						✓					✓	
Biomass, Wood, & Coal Gasification			✓						✓					✓
TRIPS AND TOURS:														
Atlanta Tour		✓							✓				✓	
Galaxy Carpet				✓					✓					✓
Rockwell International	✓						✓						✓	
Western Electric			✓						✓				✓	
West Georgia College		✓								✓				✓
World Energy Congress				✓					✓					✓
Dekalb Water Treatment			✓						✓					✓
University of Georgia			✓						✓					✓
FACILITIES:														
Emory Pines	✓							✓					✓	
Graduation		✓						✓					✓	
Translators		✓						✓					✓	
ARA Bus Service		✓						✓					✓	
Industrial Education Support Personnel	✓							✓					✓	

COMMENTS:

EVALUATION SHEET
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TECHNICAL TRAINING FOR KOREAN TEACHERS

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation	✓						✓						✓	
English Language	✓						✓						✓	
Automation/Robotics	✓						✓						✓	
Information Resources	✓						✓						✓	
Engineering Technology/80's (STI)	✓						✓						✓	
Boiler Technology		✓						✓					✓	
Electrical Energy Management		✓						✓					✓	
Waste Heat Recovery		✓						✓					✓	
Audio/Visual	✓						✓						✓	
High-Tech in Occupational Ed. (GSU)	✓						✓						✓	
Vocational Technical (UGA)	✓						✓						✓	
Biomass, Wood, & Coal Gasification		✓						✓					✓	
TRIPS AND TOURS:		✓						✓						
Atlanta Tour		✓						✓					✓	
Galaxy Carpet		✓						✓					✓	
Rockwell International	✓						✓						✓	
Western Electric	✓						✓						✓	
West Georgia College		✓						✓					✓	
World Energy Congress		✓						✓					✓	
Dekalb Water Treatment		✓						✓					✓	
University of Georgia		✓						✓					✓	
FACILITIES:														
Emory Pines	✓						✓						✓	
Graduation	✓						✓						✓	
Translators		✓						✓					✓	
ARA Bus Service		✓						✓					✓	
Industrial Education Support Personnel	✓						✓						✓	

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation		✓						✓					✓	
English Language			✓					✓					✓	
Automation/Robotics		✓						✓					✓	
Information Resources			✓					✓					✓	
Engineering Technology/80's (STI)		✓						✓					✓	
Boiler Technology				✓						✓				✓
Electrical Energy Management			✓						✓					✓
Waste Heat Recovery				✓						✓				✓
Audio/Visual		✓					✓						✓	
High-Tech in Occupational Ed. (GSU)	✓						✓						✓	
Vocational Technical (UGA)			✓					✓					✓	
Biomass, Wood, & Coal Gasification				✓				✓					✓	✓
TRIPS AND TOURS:														
Atlanta Tour		✓						✓					✓	
Galaxy Carpet			✓						✓					✓
Rockwell International	✓						✓						✓	
Western Electric		✓					✓						✓	
West Georgia College				✓						✓				✓
World Energy Congress			✓						✓					✓
Dekalb Water Treatment				✓				✓					✓	
University of Georgia			✓					✓					✓	
FACILITIES:														
Emory Pines		✓					✓						✓	
Graduation		✓					✓						✓	
Translators			✓						✓				✓	
ARA Bus Service			✓					✓					✓	
Industrial Education Support Personnel		✓					✓						✓	

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation														
English Language														
Automation/Robotics														
Information Resources														
Engineering Technology/80's (STI)														
Boiler Technology														
Electrical Energy Management														
Waste Heat Recovery														
Audio/Visual														
High-Tech in Occupational Ed. (GSU)														
Vocational Technical (UGA)														
Biomass, Wood, & Coal Gasification														
TRIPS AND TOURS:														
Atlanta Tour														
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Rockwell International														
Western Electric														
West Georgia College														
World Energy Congress														
Dekalb Water Treatment														
University of Georgia														
FACILITIES:														
Emory Pines														
Graduation														
Translators														
ARA Bus Service														
Industrial Education Support Personnel														

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation	√						√						√	
English Language	√						√						√	
Automation/Robotics		√						√					√	
Information Resources	√						√						√	
Engineering Technology/80's (STI)		√						√					√	
Boiler Technology	√						√						√	
Electrical Energy Management	√						√						√	
Waste Heat Recovery			√						√					√
Audio/Visual	√						√						√	
High-Tech in Occupational Ed. (GSU)		√						√					√	
Vocational Technical (UGA)	√						√						√	
Biomass, Wood, & Coal Gasification			√						√					√
TRIPS AND TOURS:														
Atlanta Tour	√						√						√	
Galaxy Carpet		√						√					√	
Rockwell International			√						√				√	
Western Electric			√						√				√	
West Georgia College		√						√					√	
World Energy Congress			√						√				√	
Dekalb Water Treatment	0						0						0	
University of Georgia	√								√				√	
FACILITIES:														
Emory Pines	√						√						√	
Graduation		√						√					√	
Translators	0						√						√	
ARA Bus Service	0						√						√	
Industrial Education Support Personnel	0						√						√	

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation	✓						✓						✓	
English Language	✓						✓						✓	
Automation/Robotics	✓						✓						✓	
Information Resources		✓						✓					✓	
Engineering Technology/80's (STI)			✓						✓				✓	
Boiler Technology				✓						✓			✓	
Electrical Energy Management		✓						✓					✓	
Waste Heat Recovery	✓						✓						✓	
Audio/Visual	✓						✓						✓	
High-Tech in Occupational Ed. (GSU)	✓						✓						✓	
Vocational Technical (UGA)		✓						✓					✓	
Biomass, Wood, & Coal Gasification	✓						✓						✓	
TRIPS AND TOURS:													✓	
Atlanta Tour			✓						✓				✓	
Galaxy Carpet				✓						✓			✓	
Rockwell International	✓						✓						✓	
Western Electric	✓						✓						✓	
West Georgia College	✓						✓						✓	
World Energy Congress	✓						✓						✓	
Dekalb Water Treatment	✓						✓						✓	
University of Georgia	✓						✓						✓	
FACILITIES:													✓	
Emory Pines	✓						✓						✓	
Graduation			✓					✓					✓	
Translators		✓						✓					✓	
ARA Bus Service	✓						✓						✓	
Industrial Education Support Personnel	✓						✓						✓	

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation		✓						✓					✓	
English Language	✓						✓						✓	
Automation/Robotics		✓						✓					✓	
Information Resources	✓						✓						✓	
Engineering Technology/80's (STI)			✓				✓						✓	
Boiler Technology	✓							✓					✓	
Electrical Energy Management		✓							✓				✓	
Waste Heat Recovery	✓						✓						✓	
Audio/Visual	✓							✓					✓	
High-Tech in Occupational Ed. (GSU)		✓					✓						✓	
Vocational Technical (UGA)	✓							✓					✓	
Biomass, Wood, & Coal Gasification		✓					✓						✓	
TRIPS AND TOURS:														
Atlanta Tour	✓							✓					✓	
Galaxy Carpet			✓						✓				✓	
Rockwell International	✓						✓						✓	
Western Electric	✓								✓					✓
West Georgia College	✓								✓				✓	
World Energy Congress	✓						✓						✓	
Dekalb Water Treatment	✓							✓					✓	
University of Georgia	✓						✓						✓	
FACILITIES:														
Emory Pines	✓							✓					✓	
Graduation	✓						✓						✓	
Translators	✓							✓					✓	
ARA Bus Service	✓							✓					✓	
Industrial Education Support Personnel	✓						✓						✓	

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation		O						O					O	
English Language	V							V					V	
Automation/Robotics		V	X						V				V	
Information Resources			V						V					V
Engineering Technology/80's (STI)			V						V					V
Boiler Technology				V						V				V
Electrical Energy Management			V						V				V	
Waste Heat Recovery			V						V				V	
Audio/Visual	V						V						V	
High-Tech in Occupational Ed. (GSU)	V						V						V	
Vocational Technical (UGA)	V						V						V	
Biomass, Wood, & Coal Gasification			V						V					V
TRIPS AND TOURS:														
Atlanta Tour		V						V					V	
Galaxy Carpet			V						V					V
Rockwell International	V						V						V	
Western Electric	V						V						V	
West Georgia College	V						V						V	
World Energy Congress		V						V					V	
Dekalb Water Treatment	V						V						V	
University of Georgia	V						V						V	
FACILITIES:														
Emory Pines	V						V						V	
Graduation	V						V						V	
Translators				V						V			V	
ARA Bus Service	O						O						✓	
Industrial Education Support Personnel		V						V					V	

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation	✓						✓						✓	
English Language	✓						✓						✓	
Automation/Robotics	✓						✓						✓	
Information Resources	✓						✓						✓	
Engineering Technology/80's (STI)	✓						✓						✓	
Boiler Technology	✓						✓						✓	
Electrical Energy Management	✓						✓						✓	
Waste Heat Recovery	✓						✓						✓	
Audio/Visual	✓						✓						✓	
High-Tech in Occupational Ed. (GSU)	✓						✓						✓	
Vocational Technical (UGA)	✓						✓						✓	
Biomass, Wood, & Coal Gasification	✓						✓						✓	
TRIPS AND TOURS:													✓	
Atlanta Tour	✓						✓						✓	
Galaxy Carpet	✓						✓						✓	
Rockwell International	✓						✓						✓	
Western Electric	✓						✓						✓	
West Georgia College	✓						✓						✓	
World Energy Congress	✓						✓						✓	
Dekalb Water Treatment	✓						✓						✓	
University of Georgia	✓						✓						✓	
FACILITIES:														
Emory Pines	✓						✓						✓	
Graduation	✓						✓						✓	
Translators	✓						✓						✓	
ARA Bus Service	✓						✓						✓	
Industrial Education Support Personnel	✓						✓						✓	

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation														
English Language														
Automation/Robotics														
Information Resources														
Engineering Technology/80's (STI)														
Boiler Technology														
Electrical Energy Management														
Waste Heat Recovery														
Audio/Visual														
High-Tech in Occupational Ed. (GSU)														
Vocational Technical (UGA)														
Biomass, Wood, & Coal Gasification														
TRIPS AND TOURS:														
Atlanta Tour														
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Rockwell International														
Western Electric														
West Georgia College														
World Energy Congress														
Dekalb Water Treatment														
University of Georgia														
FACILITIES:														
Emory Pines														
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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation		O						O					O	
English Language			O					O					O	
Automation/Robotics	O							O					O	
Information Resources	O						O						O	
Engineering Technology/80's (STI)		O						O					O	
Boiler Technology			O						O					O
Electrical Energy Management			O						O					O
Waste Heat Recovery			O						O					O
Audio/Visual			O						O					O
High-Tech in Occupational Ed. (GSU)	O							O					O	
Vocational Technical (UGA)	X	O					X	O					O	
Biomass, Wood, & Coal Gasification		X	O					X	O				X	O
TRIPS AND TOURS:			X						X					X
Atlanta Tour		O						O					O	
Galaxy Carpet			O						O					O
Rockwell International	O						O						O	
Western Electric	O						O						O	
West Georgia College			O					O					O	
World Energy Congress			O						O					O
Dekalb Water Treatment			O						O					O
University of Georgia			O					O					O	
FACILITIES:														
Emory Pines	O							O					O	
Graduation		O					O						O	
Translators			O						O					O
ARA Bus Service		O						O					O	
Industrial Education Support Personnel	O						O						O	

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	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation	O						O						V	
English Language	O						O						V	
Automation/Robotics	O						O						V	
Information Resources		O						O						V
Engineering Technology/80's (STI)		O						O					V	X
Boiler Technology			O						O					V
Electrical Energy Management		O						O					V	
Waste Heat Recovery	O						O						V	
Audio/Visual	O						O						V	
High-Tech in Occupational Ed. (GSU)	O						O						V	
Vocational Technical (UGA)	O						O						V	
Biomass, Wood, & Coal Gasification		O						O					X	V
TRIPS AND TOURS:														
Atlanta Tour	V						V						V	
Galaxy Carpet	V						V						V	
Rockwell International	O						O						V	
Western Electric		O						O					V	
West Georgia College	O						O						V	
World Energy Congress		O						O					V	
Dekalb Water Treatment	V						V						V	
University of Georgia	V						V						V	
FACILITIES:														
Emory Pines	V						V						V	
Graduation		O						O					V	
Translators	V						V						V	
ARA Bus Service		O						O					V	
Industrial Education Support Personnel	O						O						V	

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	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation			√						√				√	
English Language	√						√						√	
Automation/Robotics			○						○				√	
Information Resources			○						○				√	
Engineering Technology/80's (STI)		○						○					√	
Boiler Technology			○						○				√	
Electrical Energy Management		○						○					√	
Waste Heat Recovery		○						○					√	
Audio/Visual	○						○						√	
High-Tech in Occupational Ed. (GSU)			○						○				√	
Vocational Technical (UGA)			○						○				√	
Biomass, Wood, & Coal Gasification		√						√						√
TRIPS AND TOURS:														
Atlanta Tour	√						√						√	
Galaxy Carpet	√						√						√	
Rockwell International	√						√						√	
Western Electric			√						√				√	
West Georgia College		○						○					√	
World Energy Congress		○						○					√	
Dekalb Water Treatment		√						√					√	
University of Georgia	√						√						√	
FACILITIES:														
Emory Pines	√						√						√	
Graduation		√						√					√	
Translators			√						√				√	
ARA Bus Service			√						√				√	
Industrial Education Support Personnel		√						√					√	

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation	9						9						9	
English Language		9					9						9	
Automation/Robotics		9					9						9	
Information Resources	9						9						9	
Engineering Technology/80's (STI)		9					9						9	
Boiler Technology			9				9						9	
Electrical Energy Management			9				9						9	
Waste Heat Recovery			9				9						9	
Audio/Visual	9						9						9	
High-Tech in Occupational Ed. (GSU)	9						9						9	
Vocational Technical (UGA)		9					9	9					9	
Biomass, Wood, & Coal Gasification		9					9						9	
TRIPS AND TOURS:														
Atlanta Tour	9						9						9	
Galaxy Carpet			9				9	9					9	
Rockwell International	9						9						9	
Western Electric	9						9						9	
West Georgia College		9						9					9	
World Energy Congress			9					9					9	
Dekalb Water Treatment			9					9					9	
University of Georgia			9					9					9	
FACILITIES:														
Emory Pines		9						9					9	
Graduation		9						9					9	
Translators			9					9	9				9	
ARA Bus Service	9							9					9	
Industrial Education Support Personnel	9						9	X					9	

COMMENTS:

EVALUATION SHEET
for
TECHNICAL TRAINING FOR KOREAN TEACHERS

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- Please write under Comments, any statements you want to add.

PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation	✓						✓						–	
English Language		✓						✓					✓	
Automation/Robotics	✓						✓						✓	
Information Resources		✓						✓					✓	
Engineering Technology/80's (STI)			✓					✓					✓	
Boiler Technology			✓						✓					✓
Electrical Energy Management				✓					✓					✓
Waste Heat Recovery				✓					✓					✓
Audio/Visual	✓	✓					✓	✓					✓	
High-Tech in Occupational Ed. (GSU)	✓						✓						✓	
Vocational Technical (UGA)		✓					✓						✓	
Biomass, Wood, & Coal Gasification		✓							✓					✓
TRIPS AND TOURS:														
Atlanta Tour		✓						✓					✓	
Galaxy Carpet			✓						✓				✓	
Rockwell International		✓					✓						✓	
Western Electric		✓					✓						✓	
West Georgia College			✓						✓				✓	✓
World Energy Congress			✓						✓					✓
Dekalb Water Treatment			✓						✓					✓
University of Georgia			✓						✓					✓
FACILITIES:														
Emory Pines		✓						✓						✓
Graduation			✓						✓				✓	
Translators		✓						✓	✓				✓	
ARA Bus Service		✓						✓					✓	
Industrial Education Support Personnel	✓							✓					✓	

COMMENTS:

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation	✓						✓						✓	
English Language		✓						✓					✓	
Automation/Robotics	✓						✓						✓	
Information Resources		✓						✓					✓	
Engineering Technology/80's (STI)		✓						✓					✓	
Boiler Technology			✓						✓				✓	
Electrical Energy Management			✓						✓				✓	
Waste Heat Recovery				✓						✓				✓
Audio/Visual	✓						✓						✓	✓
High-Tech in Occupational Ed. (GSU)		✓					✓						✓	
Vocational Technical (UGA)			✓					✓					✓	
Biomass, Wood, & Coal Gasification				✓						✓				✓
TRIPS AND TOURS:														
Atlanta Tour		✓					✓						✓	
Galaxy Carpet				✓					✓					✓
Rockwell International		✓					✓						✓	
Western Electric	✓						✓						✓	
West Georgia College		✓							✓				✓	
World Energy Congress			✓						✓				✓	
Dekalb Water Treatment		✓						✓					✓	
University of Georgia				✓						✓			✓	
FACILITIES:														
Emory Pines		✓					✓						✓	
Graduation		✓					✓						✓	
Translators		✓							✓				✓	✓
ARA Bus Service		✓						✓					✓	
Industrial Education Support Personnel	✓						✓						✓	

COMMENTS:

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TECHNICAL TRAINING FOR KOREAN TEACHERS

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation		✓						✓					✓	
English Language	✓			✓					✓				✓	
Automation/Robotics		✓						✓					✓	
Information Resources		✓						✓					✓	
Engineering Technology/80's (STI)	✓								✓				✓	
Boiler Technology			✓					✓					✓	
Electrical Energy Management		✓						✓					✓	
Waste Heat Recovery		✓						✓					✓	
Audio/Visual	✓						✓						✓	
High-Tech in Occupational Ed. (GSU)	✓						✓						✓	
Vocational Technical (UGA)			✓						✓				✓	
Biomass, Wood, & Coal Gasification			✓					✓					✓	
TRIPS AND TOURS:														
Atlanta Tour		✓					✓						✓	
Galaxy Carpet			✓						✓				✓	
Rockwell International		✓						✓					✓	
Western Electric	✓							✓					✓	
West Georgia College			✓							✓			✓	
World Energy Congress		✓							✓				✓	
Dekalb Water Treatment			✓						✓				✓	
University of Georgia			✓						✓				✓	
FACILITIES:														
Emory Pines		✓						✓					✓	
Graduation		✓						✓					✓	
Translators		✓						✓					✓	
ARA Bus Service		✓						✓					✓	
Industrial Education Support Personnel		✓						✓					✓	

COMMENTS:

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation	✓						✓						✓	
English Language	✓						✓						✓	
Automation/Robotics	✓						✓						✓	
Information Resources	✓						✓						✓	
Engineering Technology/80's (STI)	✓						✓						✓	
Boiler Technology		✓						✓					✓	
Electrical Energy Management		✓						✓					✓	
Waste Heat Recovery		✓						✓					✓	
Audio/Visual	✓						✓						✓	
High-Tech in Occupational Ed. (GSU)	✓						✓						✓	
Vocational Technical (UGA)	✓						✓						✓	
Biomass, Wood, & Coal Gasification		✓						✓					✓	
TRIPS AND TOURS:		✓												
Atlanta Tour		✓						✓					✓	
Galaxy Carpet		✓						✓					✓	
Rockwell International	✓						✓						✓	
Western Electric	✓						✓						✓	
West Georgia College		✓						✓					✓	
World Energy Congress		✓						✓					✓	
Dekalb Water Treatment		✓						✓					✓	
University of Georgia		✓						✓					✓	
FACILITIES:														
Emory Pines	✓						✓						✓	
Graduation	✓						✓						✓	
Translators		✓						✓					✓	
ARA Bus Service	✓						✓						✓	
Industrial Education Support Personnel	✓						✓						✓	

COMMENTS:

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation		✓						✓					✓	
English Language		✓						✓					✓	
Automation/Robotics	✓						✓						✓	
Information Resources		✓						✓					✓	
Engineering Technology/80's (STI)		✓						✓					✓	
Boiler Technology			✓						✓				✓	
Electrical Energy Management			✓						✓				✓	
Waste Heat Recovery		✓						✓					✓	
Audio/Visual	✓						✓						✓	
High-Tech in Occupational Ed. (GSU)		✓						✓					✓	
Vocational Technical (UGA)			✓						✓				✓	
Biomass, Wood, & Coal Gasification			✓						✓					✓
TRIPS AND TOURS:														
Atlanta Tour	✓						✓						✓	
Galaxy Carpet		✓						✓					✓	
Rockwell International	✓						✓						✓	
Western Electric	✓						✓						✓	
West Georgia College	✓						✓						✓	
World Energy Congress		✓						✓					✓	
Dekalb Water Treatment	✓						✓						✓	
University of Georgia	✓						✓						✓	
FACILITIES:														
Emory Pines	✓						✓						✓	
Graduation		✓						✓					✓	
Translators				✓						✓			✓	
ARA Bus Service			✓						✓				✓	
Industrial Education Support Personnel			✓						✓				✓	

COMMENTS:

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation		✓						✓					✓	
English Language			✓					✓					✓	
Automation/Robotics		✓						✓					✓	
Information Resources	✓						✓						✓	
Engineering Technology/80's (STI)		✓						✓					✓	
Boiler Technology			✓						✓				✓	
Electrical Energy Management			✓						✓					✓
Waste Heat Recovery			✓					✓	✓				✓	
Audio/Visual	✓							✓					✓	
High-Tech in Occupational Ed. (GSU)	✓						✓	✓					✓	
Vocational Technical (UGA)			✓					✓					✓	
Biomass, Wood, & Coal Gasification			✓						✓					✓
TRIPS AND TOURS:														
Atlanta Tour		✓						✓					✓	
Galaxy Carpet			✓					✓						✓
Rockwell International	✓						✓						✓	
Western Electric	✓						✓						✓	
West Georgia College			✓					✓					✓	
World Energy Congress			✓						✓				✓	
Dekalb Water Treatment		✓						✓					✓	
University of Georgia			✓					✓					✓	
FACILITIES:														
Emory Pines		✓						✓					✓	
Graduation			✓					✓					✓	
Translators			✓					✓					✓	
ARA Bus Service		✓						✓					✓	
Industrial Education Support Personnel	✓							✓					✓	

COMMENTS:

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation														
English Language														
Automation/Robotics														
Information Resources														
Engineering Technology/80's (STI)														
Boiler Technology														
Electrical Energy Management														
Waste Heat Recovery														
Audio/Visual														
High-Tech in Occupational Ed. (GSU)														
Vocational Technical (UGA)														
Biomass, Wood, & Coal Gasification														
TRIPS AND TOURS:														
Atlanta Tour														
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Rockwell International														
Western Electric														
West Georgia College														
World Energy Congress														
Dekalb Water Treatment														
University of Georgia														
FACILITIES:														
Emory Pines														
Graduation														
Translators														
ARA Bus Service														
Industrial Education Support Personnel														

COMMENTS:

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation													✓	
English Language													✓	
Automation/Robotics													✓	
Information Resources													✓	
Engineering Technology/80's (STI)													✓	
Boiler Technology													✓	
Electrical Energy Management													✓	
Waste Heat Recovery													✓	
Audio/Visual													✓	
High-Tech in Occupational Ed. (GSU)													✓	
Vocational Technical (UGA)													✓	
Biomass, Wood, & Coal Gasification													✓	
TRIPS AND TOURS:														
Atlanta Tour													✓	
Galaxy Carpet													✓	
Rockwell International													✓	
Western Electric													✓	
West Georgia College													✓	
World Energy Congress													✓	
Dekalb Water Treatment													✓	
University of Georgia													✓	
FACILITIES:														
Emory Pines													✓	
Graduation													✓	
Translators													✓	
ARA Bus Service													✓	
Industrial Education Support Personnel													✓	

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation	o						o						v	
English Language		o						o					v	
Automation/Robotics	o							o					v	
Information Resources	o							o					v	
Engineering Technology/80's (STI)		o					o						v	
Boiler Technology	o							o					v	
Electrical Energy Management		o						o					v	
Waste Heat Recovery	o						o						v	
Audio/Visual	o						o						v	
High-Tech in Occupational Ed. (GSU)		o						o					v	
Vocational Technical (UGA)	o						o						v	
Biomass, Wood, & Coal Gasification	o						o						v	
TRIPS AND TOURS:														
Atlanta Tour	o						o						v	
Galaxy Carpet			o						o				v	
Rockwell International	o						o						v	
Western Electric	o						o						v	
West Georgia College	o						o						v	
World Energy Congress	o						o						v	
Dekalb Water Treatment		o						o						v
University of Georgia		o						o					v	
FACILITIES:														
Emory Pines	o						o						v	
Graduation	o						o						v	
Translators	o						o						v	
ARA Bus Service	o						o						v	
Industrial Education Support Personnel	o						o						v	

COMMENTS:

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation		✓						✓					✓	
English Language	✓						✓						✓	
Automation/Robotics	✓						✓						✓	
Information Resources	✓						✓						✓	
Engineering Technology/80's (STI)		✓						✓					✓	
Boiler Technology			✓						✓					✓
Electrical Energy Management			✓						✓					✓
Waste Heat Recovery		✓						✓					✓	
Audio/Visual	✓						✓						✓	
High-Tech in Occupational Ed. (GSU)	✓						✓						✓	
Vocational Technical (UGA)	✓						✓						✓	
Biomass, Wood, & Coal Gasification			✓						✓				✓	
TRIPS AND TOURS:														
Atlanta Tour	✓						✓						✓	
Galaxy Carpet		✓						✓					✓	
Rockwell International	✓						✓						✓	
Western Electric	✓						✓						✓	
West Georgia College		✓						✓					✓	
World Energy Congress	✓						✓						✓	
Dekalb Water Treatment	✓						✓						✓	
University of Georgia	✓						✓						✓	
FACILITIES:														
Emory Pines	✓						✓						✓	
Graduation	✓						✓						✓	
Translators			✓						✓				✓	
ARA Bus Service	✓						✓						✓	
Industrial Education Support Personnel	✓						✓						✓	

COMMENTS:

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation		✓							✓				✓	
English Language		✓								✓			✓	
Automation/Robotics		✓						✓					✓	
Information Resources		✓					✓						✓	
Engineering Technology/80's (STI)		✓					✓							✓
Boiler Technology			✓					✓						✓
Electrical Energy Management			✓					✓						✓
Waste Heat Recovery			✓					✓						✓
Audio/Visual	✓						✓						✓	
High-Tech in Occupational Ed. (GSU)	✓						✓						✓	
Vocational Technical (UGA)		✓						✓						✓
Biomass, Wood, & Coal Gasification			✓						✓					✓
TRIPS AND TOURS:														
Atlanta Tour	✓						✓						✓	
Galaxy Carpet	✓						✓						✓	
Rockwell International	✓						✓						✓	
Western Electric	✓						✓						✓	
West Georgia College		✓						✓					✓	
World Energy Congress		✓						✓						
Dekalb Water Treatment			✓						✓				✓	
University of Georgia			✓						✓				✓	
FACILITIES:														
Emory Pines	✓						✓						✓	
Graduation		✓						✓					✓	
Translators			✓						✓				✓	
ARA Bus Service		✓						✓					✓	
Industrial Education Support Personnel	✓						✓						✓	

COMMENTS:

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation	O							O					O	X
English Language		O						O					O	
Automation/Robotics			O					O					O	
Information Resources	O						O						O	
Engineering Technology/80's (STI)			O						O					O
Boiler Technology			O						O					O
Electrical Energy Management			O						O					O
Waste Heat Recovery		O						O						O
Audio/Visual	O						O						O	
High-Tech in Occupational Ed. (GSU)	O						O						O	
Vocational Technical (UGA)		O						O					O	
Biomass, Wood, & Coal Gasification			O						O					O
TRIPS AND TOURS:														
Atlanta Tour		O						O					O	
Galaxy Carpet			O					O					X	O
Rockwell International	O						O						O	
Western Electric	O						O						O	
West Georgia College			O					O						O
World Energy Congress		O						O					O	
Dekalb Water Treatment		O						O					O	
University of Georgia		O						O					O	
FACILITIES:														
Emory Pines	O						O						O	
Graduation	O						O						O	
Translators			O						O					O
ARA Bus Service		O						O					O	
Industrial Education Support Personnel	O						O						O	

COMMENTS:

After English language course, it would be nice to have Audio/Visual program first.

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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation		✓						✓					✓	
English Language		✓							✓				✓	
Automation/Robotics			✓							✓			✓	
Information Resources		✓					✓						✓	
Engineering Technology/80's (STI)		✓						✓					✓	
Boiler Technology			✓						✓					✓
Electrical Energy Management			✓					✓						✓
Waste Heat Recovery			✓					✓						✓
Audio/Visual	✓							✓					✓	
High-Tech in Occupational Ed. (GSU)	✓						✓						✓	
Vocational Technical (UGA)		✓						✓					✓	
Biomass, Wood, & Coal Gasification			✓						✓					✓
TRIPS AND TOURS:														
Atlanta Tour		✓						✓					✓	
Galaxy Carpet			✓					✓						✓
Rockwell International		✓					✓						✓	
Western Electric	✓							✓					✓	
West Georgia College		✓								✓				✓
World Energy Congress				✓					✓					✓
Dekalb Water Treatment			✓					✓					✓	
University of Georgia		✓							✓				✓	
FACILITIES:														
Emory Pines	✓							✓					✓	
Graduation		✓					✓						✓	
Translators			✓						✓					✓
ARA Bus Service		✓						✓					✓	
Industrial Education Support Personnel	✓						✓						✓	

COMMENTS:

EVALUATION SHEET
for
TECHNICAL TRAINING FOR KOREAN TEACHERS

- Please assist us by marking in the proper space your evaluation of the activities presented in this training program.
- Please mark under one of the headings showing letter grades ranging from A through F with A being the best performance and F being the worst. Please also indicate by checking a Yes or No if you think future training should include the same or similar programs.
- Please write under Comments, any statements you want to add.

PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation	O						O						O	
English Language	O						O						O	
Automation/Robotics	O						O						O	
Information Resources		O						O					O	
Engineering Technology/80's (STI)		O						O					O	
Boiler Technology		O						O					O	
Electrical Energy Management			V						V				O	
Waste Heat Recovery			V						V					V
Audio/Visual		O						O					O	
High-Tech in Occupational Ed. (GSU)		O						O					O	
Vocational Technical (UGA)		O						O					O	
Biomass, Wood, & Coal Casification				O						O			O	
TRIPS AND TOURS:													X	
Atlanta Tour	O						O						O	
Galaxy Carpet				V						V				V
Rockwell International	V						V						O	
Western Electric	V						V						O	
West Georgia College			V						V				O	
World Energy Congress		V						V					O	
Dekalb Water Treatment	V						V						O	
University of Georgia	V						V						O	
FACILITIES:														
Emory Pines	V						V						O	
Graduation	V						V						O	
Translators		V						V					O	
ARA Bus Service	V						V						O	
Industrial Education Support Personnel	V						V						O	

COMMENTS:

EVALUATION SHEET
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PROGRAM	GRADE												FUTURE TRAINING	
	CONTENTS						INSTRUCTION						YES	NO
INSTRUCTION:	A	B	C	D	E	F	A	B	C	D	E	F		
Orientation		O						O					V	
English Language	O						O						V	
Automation/Robotics	O						O						V	
Information Resources		O						O					V	
Engineering Technology/80's (STI)	O						O						V	
Boiler Technology	O						O						V	
Electrical Energy Management		O						O					V	
Waste Heat Recovery			O					O					V	
Audio/Visual	O						O						V	
High-Tech in Occupational Ed. (GSU)	O						O						V	
Vocational Technical (UGA)		O						O					V	
Biomass, Wood, & Coal Gasification	O						O						V	
TRIPS AND TOURS:													V	
Atlanta Tour	O						O						V	
Galaxy Carpet			O						O				X	V
Rockwell International	O						O						V	
Western Electric			O						O				V	
West Georgia College	O						O						V	
World Energy Congress	O						O						V	
Dekalb Water Treatment	O						O						V	
University of Georgia		O						O					V	
FACILITIES:														
Emory Pines	O						O						V	
Graduation		O						O					V	
Translators	O						O						V	
ARA Bus Service	O						O						V	
Industrial Education Support Personnel	O						O						V	

COMMENTS: