

4-1-1990

## The Technologist (1990)

School of Technology

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### Recommended Citation

School of Technology, "The Technologist (1990)" (1990). *The Technologist: School of Technology Alumni Newsletters*. 6.  
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## Dr. Robert B. Sonderman Receives Distinguished Faculty Award

Dr. Robert B. Sonderman, a member of the School of Technology faculty, was one of three Eastern Illinois University faculty who received 1989 Distinguished Faculty Awards at Eastern's Spring Commencement Ceremonies.

The other recipients of the University's highest honor bestowed upon faculty were Dr. Lawrence Barrie Hunt, zoology professor and Dr. James Quivey, professor and chair of the Department of English.

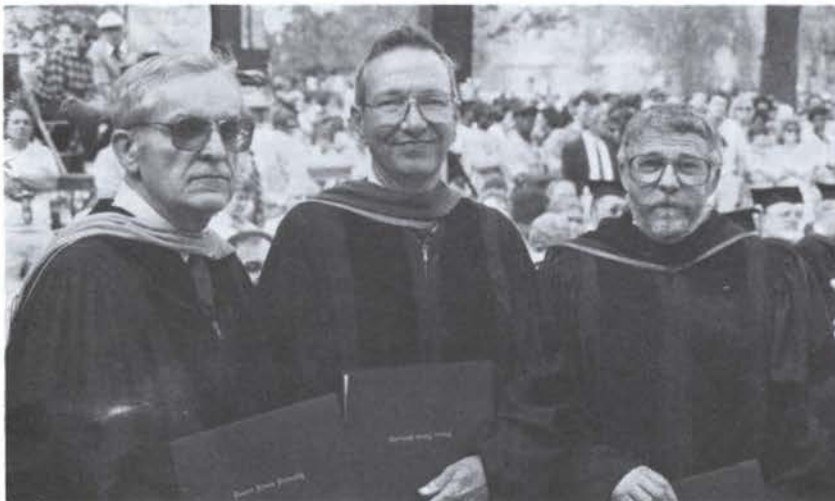
Drs. Hunt, Quivey and Sonderman were selected by a committee composed of faculty, students and alumni. Criteria for the award, which includes a certificate and stipend, include excellence in teaching, professional growth, and service to the academic community and community-at-large.

Hunt, who has taught at Eastern since 1967 and will retire in August, has authored seven journal papers in pesticide-wildlife relationships and breeding bird studies. He is a volunteer for the U.S. Fish and Wildlife Service and the Illinois Department of Conservation and Illinois Audubon collecting data on bird nesting, migration and population. He is also a member of several honorary, professional and conservation organizations.

Quivey, who came to Eastern in 1969 as director of English Composition, has chaired the English Department

since 1974. His teaching specialty is Seventeenth and Eighteenth Century English Literature and Satire.

He currently serves on the College of Liberal Arts and Sciences Search Committee for Associate Dean and the



*Drs. Sonderman, Hunt, and Quivey received Distinguished Faculty Awards at 1989 Spring Commencement Ceremonies.*

College's Dean Advisory and Executive committees, among numerous other university and departmental committees.

Sonderman, who joined the Eastern faculty in 1956, is completing his 33rd and final year as a faculty member at EIU. Dr. Sonderman has served under all but one of the six presidents of the University. During his 33 years at Eastern, Dr. Sonderman served on numerous committees, including several terms as a member of the Council on Graduate Studies. In addition to his teaching and committee assignments, Dr. Sonderman uses his many talents to contribute to the university and the community. He designed the walnut

mace that is carried by the faculty marshals leading the faculty at commencements. The mace was first used at Fall Commencement, 1985.

He was a football official for many years and currently evaluates

University football officials for the Gateway Conference. In the Summer of 1987, he volunteered his time to organize and provide the workshop, "Teaching Elementary Children Awareness of Technology," for elementary children from Charleston public schools. He is a life member of the American Council on Industrial Arts Teacher Education and serves on numerous other professional and university committees.

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LETTER FROM THE CHAIR

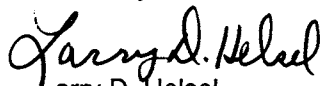
Once again it is time to provide you with an overview of the activities of the School of Technology during the 12 months since the last Technologist. This year, as in the past, the faculty and students have been extremely busy with academic program and service related activities. I am proud to be associated with the School of Technology and Eastern Illinois University because of the accomplishments of those who are and have been associated with this School. Current faculty are providing leadership at the local, state, and national levels to the professional organizations that support programs in Industrial Technology and Technology Education. They are also highly involved in research, writing, and service to the University. Faculty from the School of Technology currently serve on the Faculty Senate, The Council of Faculties, Council on Teacher Education, and the Council on University Planning and Budget.

The outreach efforts of the School also have increased significantly this year. Courses at the undergraduate and graduate level are being delivered to a number of sites including Rantoul, Champaign, Danville, Decatur, and Springfield. Special workshops and video conferences have been scheduled for industry and education and undergraduate and graduate interns from the School of Technology are being placed with local and regional industry.

Faculty and students have been especially supportive of the recruitment activities this year. Dr. Messer and his Recruitment Committee members are to be commended for their outstanding efforts toward planning and conducting activities to attract well qualified students to the programs in Technology. Included among the many recruitment activities have been a luncheon for high school counselors, visits to high schools, open houses for industry and schools, and visits to community colleges. A related activity was the "Women in Technology Symposium" which was funded by the Illinois State Board of Education and coordinated by Ms. Deborah Woodley. More than one hundred teens and adult women participated in workshops on desktop publishing, robotics, and computer aided drafting.

Finally, I take this opportunity to commend the former faculty and alumni for their success and support of Eastern Illinois University. The success of alumni and former Eastern faculty is something of which everyone associated with the School of Technology should take great pride. Graduates and former faculty are serving as university presidents, company presidents, university professors, deans, chairpersons, presidents of professional associations, authors, and consultants. As always, thank you for your support and encouragement.

Sincerely,

  
Larry D. Helsel  
Asst. Dean/Chair

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## Women's and Teen's Expos Feature Many Workshops on Technology

In an effort to encourage women and teens to consider careers in technological areas, the School of Technology sponsored several workshops during EIU's Women's and Teen's Expos.

"Lights, Camera, Action," "Robotics," "Desktop Publishing," and "Technological Careers" were the titles of four workshops sponsored by the School of Technology during the March 3rd Expos. Approximately 140 people attended the workshops held in the University Union, Klehm Hall and the Buzzard building.

This year the Women's Expos theme was "Making the Most of Me." Workshops focused on personal and career opportunities for women. Deborah Woodley, assistant professor at EIU, talked with the women about problems that novices in the desktop publishing field encounter when they begin to work with design and page layout. Ms. Woodley reviewed the types of desktop publishing systems available and explained the integration of desktop publishing to the graphic arts processes.

The theme for the Teen Expo was "Making it Happen for You." In one of the workshops sponsored by the School of Technology, young women learned about career options in technology. Margaret Place, a chemical engineer from Quantum Chemical Company, spoke about curriculum,



Sharon Carter demonstrates a robot during the Teen Expo

class sequencing and the different colleges and universities which might have programs of interest to the students. Ms. Place also spoke about the percent of women in technological fields and the attitudes women encounter out on the job and socially.

Jana Nielsen and Debbie Black held a workshop on computer assisted design (CAD) and robotics. This two part workshop began with an informational presentation on robot structure, application, languages and artificial intelligence. The second half included a demonstration of AutoCAD emphasizing the many uses of computer aided design. Ms. Nielsen and

Ms. Black also encouraged students to seek education and employment in technical fields. Ms. Nielsen designed an interactive display with a RHINO Robot which was one of the highlights of the teen exhibit area.

Deborah Woodley, with the assistance of Sue Deegan and Sharon Carter, held two 40 minute workshops on video production. During the workshops, the young women planned, scripted and starred in a one-minute commercial. They learned the basics of planning a video as well as the terminology and camera commands specific to video production.

## Student Awards .....

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### Students and Faculty Honored at School of Technology Awards Banquet

Students and faculty were honored at the Annual Awards Banquet held in the Main Ballroom of the University Union on April 18th.

Annually, the Scholarship Committee seeks qualified applicants for scholarships. The School now has seven scholarships it awards, which includes one to an incoming freshman. Each of the scholarship recipients were presented with a plaque during the reception.

William Pavlick, a resident of Roselle, was the recipient of the Alumni Scholarship. Wade Anderson from Catlin received the Charles Elliot Award, Craig Campbell from Eaton, Indiana, received the Lucille Klehm Award and Patrick Rickert from Terre Haute, Indiana, received the Walter Klehm Award. Keith Korte from Albers and Jared Goodman from Owaneco were recipients of Roy Ehram Scholarships.

In addition to student awards several faculty were recognized by the Society of Manufacturing Engineers for their contributions to that organization. Dr. Mori Toosi, Mr. Don Armel, Dr. Larry Helsel and Mrs. Marge Lugar received certificates acknowledging their contributions. Mrs. Mary Toosi, owner of Taco Time, was also honored by the society for her contributions to the annual chili luncheon fundraiser.

### **Retired Professors Active Outside Classroom**

Raymond Griffin, who retired in May, 1987 as technology education professor at EIU, still supervises student teachers to fulfill the requirements for early retirement. He finds it satisfying to be able to stay in the field part-time. This has given him an opportunity to visit classrooms in the area and maintain the long time contacts he has had with the principals and industrial arts teachers in area public schools.

Retirement has also given him the time for volunteer work and to pursue hobbies. In addition to serving on the Board of Deacons at the First Baptist Church, he serves on the Board for Coles County Senior Citizens.

Griffin has had more time to work with his hobby of making jewelry. He has discovered it is never too late to learn. Recently, he learned how to set diamonds and to cast gold mountings. Last summer, a student he had in his first class of eighth graders back in 1950 taught him how to set diamonds.

Last month, he and his wife, Catherine, celebrated their 42nd wedding anniversary in Hawaii. They hope to do more traveling in the future.

Robert B. Sonderman, who recently retired as technology education professor at Eastern Illinois University, continues to help others outside the classroom.

Sonderman and his wife, Hazel, of Charleston are volunteers for Hospice of Lincolnland, a support system for terminally ill patients and family to assist in providing a quality of life for the patient. "My wife and I work as a team," said Sonderman. "The most gratifying part of being a Hospice volunteer is a family's acceptance of a support system. Just being able to help means so much. We do whatever we can to make the patient and his/her family adjust. A lot of times that means being both a good listener and conversationalist."

Ruth Jaenike, coordinator of volunteers for Hospice of Lincolnland said, "Both Robert and his wife, Hazel, have been outstanding Hospice volunteers both in patient support and in other Hospice activities. Even though they have other commitments, they have made Hospice a priority."

Despite the satisfaction Sonderman receives from volunteer work, he still loves teaching. "In my heart, I never thought I would retire," said Sonder-

man who has returned to Eastern this fall to teach a primary grade technology education class.

"My classes are pitched to what students will use. I want them to put their skills to practical use," he said.

Sonderman especially enjoys teaching younger children about technology education. This past summer he and Jana Nielsen, who recently joined the Eastern faculty as a technology education instructor, co-taught an industrial arts class for elementary students.

Although Sonderman said the number of faculty and students has increased since he joined the faculty in 1956, he noted, "One thing remains the same... Eastern has continued to attract and retain a quality student body. The great thing about my former students and colleagues is that they still keep in touch."

Sonderman, who won Eastern's 1989 Distinguished Faculty Award, also received the honor of designing Eastern's graduation mace. The walnut mace was first used at Fall Commencement, 1985.

### **Dr. Helsel and Dr. Wright Complete Manuscript**

Dr. Larry Helsel and Dr. John Wright, Dean of the School of Technology at Central Connecticut University, have completed a manuscript for a textbook entitled *Manufacturing: Materials and Processes*. The textbook covers the basic structure, characteristics, and properties of metals, nonmetals, and composites. It also includes detailed descriptions of traditional and state-of-the-art industrial processes used to convert industrial materials into usable goods. The book is written for high school and college courses in industrial materials and manufacturing processes. Delmar Publishers Inc. is currently reviewing the manuscript.

Dr. Helsel has completed a proposal for an Industrial Materials book for college level courses in departments of

Industrial Technology and related areas. The book will cover the structure, characteristics, physical properties, and applications of industrial materials. Considerable attention will be given to composite materials and their applications. Merrill Publishing is reviewing the proposal and sample chapters of *Industrial Materials Technology*.

### **College of Applied Science Faculty Receive Faculty Excellence Awards**

Forty-three Eastern Illinois University faculty members have received 1989 Faculty Excellence Awards recognizing their achievements for this academic year.

Faculty Excellence Awards are given annually to tenured faculty who

have outstanding contributions to the areas of teaching (primary duties, research, creative activities, and service), and general service to the university. This year's recipients each received a \$ 1,000 cash award.

Faculty members from the College of Applied Sciences receiving honors for teaching were Tom Boldrey, Technology, and Loretta K. Woodward, Home Economics.

Faculty members honored for service were Laurent Gosselin, Home Economics, and Gayle G. Strader, Home Economics.

Three members were nominated in more than one category. They were Carol Armstrong, Home Economics, teaching/service; Ruth Dow, Home Economics, teaching/service; and Joyce Felstehausen, Technology, all areas.

## Three School of Technology Faculty complete their Ph.D.'s at SIU

Louis Butler, Mori Toosi and Mahyar Izadi completed their Ph.D. degrees in the Spring 1990 from the Department of Vocational Education Studies at Southern Illinois University at Carbondale.

Dr. Butler concentrated on industrial training and his dissertation is entitled "Characteristics of Cooperatives between National Association

of Industrial Technology Accredited Industrial Technology Programs and Industry."

Dr. Toosi's emphasis was on industrial technology program evaluation, and his dissertation is entitled, "Technical Competencies needed by Industrial Technology Graduates as Perceived by the Manufacturing Engineers in Selected Establishments."

Dr. Izadi's emphasis was on Industrial Management and Training and his dissertation is entitled, "Characteristics of Quality Assurance Training in Selected Manufacturing Establishments as Perceived by Quality Assurance and Training by Quality Assurance and Training Managers."

## Grad Students .....

Graduate students provide essential support for the School of Technology faculty. This year, seven graduate assistants are assigned to the various laboratories in the school.

Chris Stanton supervises the production lab where he demonstrates and maintains equipment in support of manufacturing classes.

Chris' home is Schaumburg, IL. He has a B.S. in Technology Education concentrating in production and communication. He has worked five summers in a welding shop.

Chris is preparing for a career in teaching or manufacturing.

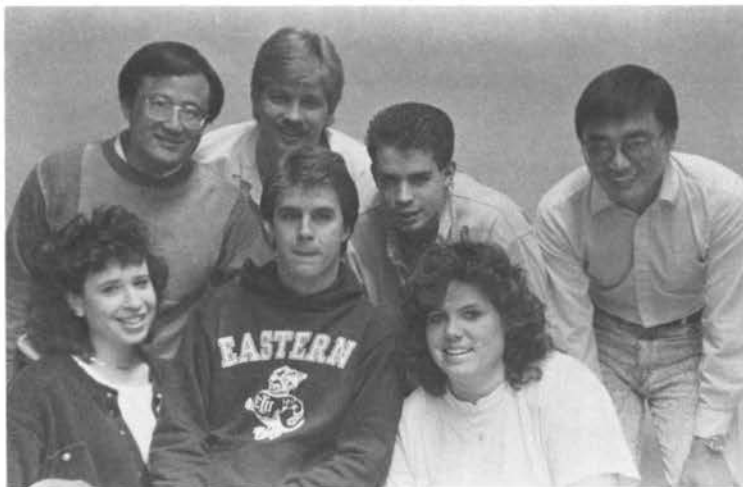
Stephen Coady supervises students in the CAD lab. He maintains equipment and assists students during open laboratory hours.

Stephen has a B.S. in Technology Education with a concentration in production and communication.

After graduation, he would like to work in industry or teach industrial technology at the college level.

Shanlin Hao supervises students with CAD and CNC assignments, and maintains equipment in the CIM lab.

Shanlin has a B.S. and M.S. in Mechanical Engineering from Northwestern Polytechnical University in Xian, PRC. Shanlin plans to continue to study for a Ph.D. in Mechanical Engineering in the U.S.



Standing: Mitchell Zheng, Steve Coady, Andy Klose, Shanlin Hao  
Seated: Sharon Carter, Chris Stanton, and Sue Deegan.

Andrew Klose supervises the Power/Energy lab, maintains equipment, designs and manufactures circuit boards and assists in construction of programmable controller instructional systems.

Andrew has a B.S. in Industrial Technology with a concentration in electronics. His hometown is Elmhurst, IL. He has worked for Automatic Data Processing (ADP) and Appliance Control Technology (ACT) in electronics positions.

Andrew plans to finish his M.S. degree and hopes to land a job with an electronics manufacturing firm.

Susan Deegan's duties include: maintaining lab facilities, mixing chemicals and helping students with lab assignments.

Susan has a B.A. from Eastern Illinois University with an option in

Graphic Design and will receive an M.S. in Technology in August 1990. Her home is in Tinley Park. Susan has worked as a Graphic Designer for Women's Expo and School of Adult and Continuing Education.

Susan plans to return to Chicago to work as a designer using desktop publishing for an advertising agency.

Sharon Carter's duties include helping students, monitoring and maintaining the lab and general design.

Sharon has a B.S. degree in Art with an emphasis in Graphic Design. She was President of the Graphic Design Association at EIU. She has interned at Hill and Knowlton, Inc. during the summer of 1989.

Sharon plans to finish her M.S. in Technology and hopes to gain an entry level position as a designer in an advertising or public relations firm.

Mitchell Zheng is the supervisor for the graphics lab. He comes to us from Shanghai, China where he earned his B.S. in computer engineering at Shanghai Institute of Railroad Technology. Mitchell has worked three years in a factory as an electrical engineer.

Mitchell plans to finish his M.S. in Technology here at Eastern, then continue on in a Ph.D. program so that he may teach Technology at a university.

### *Computer Integrated Manufacturing Lab Adds Turning Center*

Quality education has been recognized by industry as the key to success in world wide manufacturing. To stay on top the manufacturers must reduce development time, improve quality, and increase efficiency of the entire product cycle. Eastern Illinois University has recognized this challenge and market demand for quality education. The School of Technology at Eastern has made a major commitment to teaching excellence in modern manufacturing technology.

The Computer Integrated Manufacturing (CIM) laboratory was formed in 1987 by utilizing five CAD

stations and one computer numerically controlled (CNC) machine. Today, technology students at Eastern benefit from fifteen CAD stations, three CNC machines, and a cell manufacturing system.

Newly purchased equipment for the CIM Lab this year are a Hardinge CNC turning center with Fanuc OT-B controller, and five additional CAD systems. The Hardinge CNC machine is among the most advanced commercial machines available in the market. This year's spending budget on equipment and contractual services for the CIM Lab was about \$104,000 which was part

of a NEPR grant (New Expanded Program Review).

Technology students are learning the design concepts of parts through the CAD system and by utilizing the Masterkey software, transferring the design data to either the CNC milling machine or CNC turning center to produce an actual part. Modern equipment and facilities in the new Computer Integrated Manufacturing laboratory creates enormous opportunities for students and faculty at Eastern Illinois University to study the principles and concepts of advanced manufacturing techniques.



*Ray Richardson who assisted in the development of the CIM cell, explains the work flow of the computer integrated manufacturing system.*

## The NPU Connection

The School of Technology has been fortunate to have had two outstanding visiting professors from Northwestern Polytechnical University, People's Republic of China, during the past three years. Dr. Songi Chen, professor of Mechanical Engineering, was the first to be assigned to the School of Technology from NPU. Dr. Chen assisted Dr. Mori Toosi with courses in the Manufacturing Technology Option and with special projects in the Computer Integrated Manufacturing Laboratory. Dr. Chen was also kind enough to agree to conduct a conversational Chinese class for interested faculty in the College of Applied Sciences.

During the spring semester at Eastern, Dr. Chen was invited to assist a faculty member at the Massachusetts Institute of Technology in a research project in the Mechanical Engineering Department. Dr. Chen left Eastern in August of 1988 to go to MIT. He is currently completing his second year at MIT and plans to return to China soon.

In the fall of 1988, Mr. Shanlin Hao came to Charleston as a visiting professor from NPU. Shanlin is an instructor of Mechanical Engineering at Northwestern Polytechnical University whose professional interests include robotics, numerical control systems, and CAD/CAM. Mr. Hao has been assigned to the Computer Integrated Manufacturing Laboratory and has assisted Dr. Toosi with CNC and CIM classes. He also worked with Mr. Ray Richardson in establishing an automated work cell in the CIM Lab.

Northwestern Polytechnical University is located in the ancient municipality of Xi'an, People's Republic of China. NPU is a multidisciplinary polytechnic institution featuring aeronautics, aerospace, and marine engineering. It was founded in October, 1957 by combining the former Northwestern Engineering Institute and the former Xi'an Aeronautical Institute. Currently, NPU has 40 undergraduate programs, 37 master

programs, and 14 doctoral programs. The University enrollment of 9,400 includes 6,200 undergraduates.

The School of Technology has enjoyed the relationship with Northwestern Polytechnical University through the faculty exchange program and looks forward to hosting more exchange professors in the future. Faculty in the School also have expressed an interest in going to NPU as part of the exchange program.

## Dr. Ming H. Land Named Dean of the College of Fine and Applied Arts

Dr. Ming H. Land, recently named Dean of the College of Fine and Applied Arts, has been with Appalachian State University since 1983. He served as professor and chairperson in the Department of Technology prior to his appointment as dean.

Prior to joining Appalachian State University, he was a professor in the Department of Industrial Education and Architecture from 1971 to 1983 and an assistant professor in the School of Technology at Eastern Illinois University during the 1970-71 academic year. He was a Fulbright Scholar in the College of Engineering at Chungnam National University of Korea during the fall semester of 1981. He is also an honorary professor of mechanical engineering at Northeast University of Technology in China.

He received his B.S. degree in industrial education in 1963 from National Taiwan Normal University, his M.S. degree in industry and technology in 1968 from Northern Illinois University and his Ed.D. degree in industrial and technical education in 1970 from Utah State University. He has co-authored an engineering graphics textbook, more than 50 journal articles written in three languages and conducted a vocational education research study. He is presently a member of the editorial board of *Engineering Design Graphics Journal* and *Journal of Theoretical and Computing Graphics*.

He and his wife Whei-ing and two children, Judy and Michael, reside in Boone, NC.

## Wayne Eikenberry named Teacher of the Year

Emporia High technology education teacher Wayne Eikenberry has been named the 1989-90 Kansas Technology Education Teacher of the Year by the Kansas Technology Education Association. He received the award Tuesday, March 3 in Indianapolis at the national conference of technology educators. Mr. Eikenberry has taught at Emporia High for the past 11 years. He received his bachelor's degree in industrial education from Ball State University and a master's degree in technology from Eastern Illinois University.

## Gary Fisher Becomes Training Supervisor

Gary Fisher has accepted a job with a company new to the United States. Gary is the Training Supervisor for Stork Contiweb, a Dutch company that has recently begun manufacturing and servicing splicers and infeed units for web presses in Milwaukee, WI.

Previously, Gary had been working at World Color Press in Effingham, IL, where he was a training specialist. At World Color, Gary's primary duties were the organization and support of pressroom, maintenance, shipping and receiving training materials.

Since the Contiweb operation in Milwaukee is new, Gary has been involved with the details of organizing a training program. One of the first major projects has been reorganizing the manual into training lesson plans and "user friendly" operator/maintenance reference guides.



## Highlights of Academic Year 88-89

- February 22    1989-90 EPT Breakfast
- March 3        Women's Expo Workshops
- April 18        School of Technology Awards Banquet
- April 27        Technology Education Exhibition
- April 28        Fourth Annual Golf and Goat  
Tournament

## Editor's Note

The publication of the Spring '90' issue of the *Technologist* was a class project of the students in TED 3053 Communication Production. Special recognition for creativity and effort in making this year's newsletter a reality is extended to the following students: Paul Beals, Kerry Billick, Janie Boecher, Theresa Cassady, Jamie Crane, Jodi Crane, Marc Denault, Michelle Eads, Rhonda Eaton, Laura Malek, Mark Moreland, Jim Norris, Julie Paffel, Mark Randall, David Sieveking, Mike Sullivan, Todd Wade, and Julie Wilson.

We want to thank all of the faculty and graduate students who contributed articles or photographs for the newsletter.

A special thank you must be extended to Jim Cook, owner of Cook Printing Co., Charleston, IL for his efforts in working with the students to print the newsletter.

Sincerely,

*Donald Armel*  
*Deborah A. Woodley*

Donald Armel  
Deborah A. Woodley

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