



life with **IMSA**

LIVE YOUR DREAM



2000-2001

REPORT TO OUR INVESTORS

IMSA Fund for Advancement of Education

 **IMSA**

TO OUR INVESTORS

Thank you for helping students and teachers throughout Illinois live their dreams!



How will the state, nation and world we know change in this new century? How will we produce our food, travel from place to place, care for our fellow human beings and sustain the energy to power it all? How will nations communicate and citizens receive news? What medical, ecological or informational challenges are on the horizon? Who will initiate life-changing innovations, and how will the next generation learn to do the same?

The Illinois Mathematics and Science Academy asks these questions of its students and teachers, other Illinois students and teachers, and the public at large – and in doing so challenges them to explore new horizons, embrace future possibilities and live their dreams.

So much is made possible for Illinois students and teachers by the generous investors in the IMSA Fund for Advancement of Education. We thank you for your support of IMSA's work.

As we look to the future, we believe the case for investing in IMSA is stronger than ever. Clearly there are compelling needs in Illinois. We need more well qualified mathematics and science teachers, and we need more highly motivated

students to pursue mathematics and science education and careers. We need to address the disparity in quality of opportunities across the state and among schools; many students lack access to good mathematics and science curricular and enrichment programs. And there is an urgent need to enhance scientific literacy among policymakers and the general public to accelerate scientific and technological advancements.

IMSA programs are designed to help address these critical needs, and IMSA is well positioned to meet the challenge. IMSA is a recognized leader in mathematics and science education at the local, state, national and international levels and an effective innovator that gets positive results. In addition, IMSA represents a strong public-private partnership among education, government and business. In short, IMSA is a winner that works.

Thank you for helping students and teachers throughout Illinois live their dreams! You too can live your dream for a better state, nation and world by investing in IMSA.

Sincerely,



James R. Thompson

Chairman

IMSA Fund for Advancement of Education



Philip H. Francis, Ph.D.

President

IMSA Fund for Advancement of Education

AT A GLANCE

LIVE YOUR DREAM

Since 1986, the IMSA Fund for Advancement of Education has helped students and teachers throughout Illinois to live their dreams. The IMSA Fund is a not-for-profit 501 (c)(3) corporation that enlists private sector support of initiatives at the Illinois Mathematics and Science Academy. These initiatives not only benefit IMSA students, but also students and teachers in urban, suburban and rural

areas throughout Illinois.

In 2000-01, the national need for teacher preparation programs in mathematics and science received unprecedented attention by our nation's leaders and the media. Not surprisingly, the demand for additional mathematics and science programs for younger students also continued to skyrocket. Once again, IMSA responded.

IMSA Great Minds Program

www.imsa.edu/team/greatminds

Have you ever dreamed of coming face-to-face with a 21st Century scientist who significantly influenced life on our planet as we know it today?

The Great Minds Program allows these dreams to come true. It brings those on the frontiers of discovery across the globe to the steps of IMSA in Aurora, Illinois. Where else in the world could a high school student have the opportunity to learn "at the foot of a master?" By reconnecting mathematics, science and the humanities to the human experience, the Great Minds Program creates conversations that matter to students. Not surprisingly, some of the young great minds include IMSA alumni.

Highlights in 2000-01 included:

- More than **1500** guests attended Great Minds Program events hosted on the IMSA campus and delivered to some via distance learning technologies.
- More than **700** Illinois teachers and students participated in Great Minds Program dialogues held at IMSA. Topics included *Science, Law and Technology, Stories of a Scientist, and Science Education in the 21st Century: Pushing the Envelope on Student Assessment.*
- More than **700** people attended Great Minds Program community lectures held at IMSA for the general public.

Speakers included:

Dr. Leon Lederman,
Nobel Laureate and IMSA
resident scholar

Dr. Brian Spears, director of
pharmacogenetics at Abbott
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Nicholas Pritzker, chairman and
ceo of Hyatt Development Corp.
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of Divine Interventures

Sam Choi, IMSA alumnus, founder and coo
of Visible Markets, Inc.

Dr. Lynn Margulis, microbiologist

Dr. Lawrence Krauss, theoretical physicist,
author of *The Physics of Star Trek* (*pictured next page*)

Douglas Hofstadter, mathematician

Dr. Luis Nuñez, chemist

Dr. Herman White, physicist

- A group of 14 IMSA students, working under the supervision of Dr. Leon Lederman, wrote a book for middle school students profiling key scientists of the 20th Century. The book, *Portraits of Great American Scientists*, was published in Fall 2001.
- A series of white papers entitled: "Physics First? Redesigning the Science Curriculum for High Schools," "Frontiers of Educational Technology" and "Science Education for the 21st Century: What Will It Take to Deliver a Standards-based Curriculum?" were created following the Great Minds Program dialogues with Illinois and national education experts. These white papers were distributed free of charge to approximately **600** people in Illinois and beyond.

IMSA Kids Institute

www.imsa.edu/kidsinstitute

Have you ever dreamed of designing a Mars Rover for exploration on the planet Mars in the year 2030?

The IMSA Kids Institute allows dreams like this to come true. It pairs young scholars with IMSA students in hands-on enrichment programs that integrate concepts of science, mathematics and technology with the humanities. In addition to the obvious benefits for younger students, the Kids Institute also helps IMSA students develop as leaders and potential future teachers as they share their love of learning with others.



Examples of programs supported by the private sector follow.

Thanks in part to the generous support of our donors, IMSA can continue to influence, serve and lead others in meeting these national needs. Equally as important is the need to help our students become ethical leaders and responsible stewards. Only then will we move closer to realizing a world that works for everyone.

IMSA



Highlights in 2000-01 included:

- More than **300** students participated in Kids Institute programs during the summer and more than **600** in activities during the school year.
- New summer middle school programs attracted nearly **100** middle school students to programs such as: Explorations in Science, Digital Art and German Explorers.
- Regional expansion efforts included sites in Chicago and Liberty.
- **One hundred** students from eight East and West Aurora Schools participated in the Science Explorers Mars Online pilot during the 2001 school year. The dynamic website hosted 16 lessons for upper elementary school classrooms. The experience culminated in a Mars Fair hosted by IMSA and attended by more than **200** participants, parents and educators.
- Nearly **700** schools in Illinois and beyond received free copies of the IMSA student-produced Real Science 2001 CD-ROM, compliments of the Kids Institute.

IMSA Excellence 2000+ Program

www.imsa.edu/center/e2k

Have you ever dreamed of building your own solar system?

The IMSA Excellence 2000+ Program (E2K+) allows dreams like this to come true. It provides after-school enrichment activities for Illinois middle school students who are talented, interested and motivated in mathematics and science, with a special emphasis on students historically underrepresented and underserved in mathematics and science. E2K+ is designed to serve students for up to 2 1/2 years, beginning in the 6th or 7th grade and continuing through the 8th grade. In addition to enriching the lives of these students, the program also provides a professional development component for educators.

Highlights in 2000-01 included:

- Seven schools participated in the first-year pilot of the E2K+ program. They included Bell Elementary School and Michele Clark Middle School in Chicago, West Middle School in Rockford, Thompson Junior High School in Oswego, Grant Middle School in Springfield, Central Junior High School in Belleville and Hillsboro Junior High School in Hillsboro.

- More than **200** students were served in the first year of the E2K+ program.
- More than **20** educators from seven school sites completed the first year of professional development through specialized training at IMSA.
- Regional expansion efforts for 2001-02 include sites in Champaign, Chicago, Danville, Des Plaines, Kankakee, Marion and Quincy.
- New curriculum units were developed focusing on Chromatography, Patterns and Sequences, Networks, Learning Behavior, Rocketry, Outdoor Math and the Solar System.

Standards-based Education: IMSA 2061

www.imsa.edu/center/2061/2061.html

IMSA 2061 provides professional development programs in standards-based education practices for mathematics and science teachers, education leaders and schools. Teachers learn to use the tools, research and experiences of education reform to improve student learning. IMSA 2061 Introductory Workshops help educators to design standards-based lesson plans for individual teachers and revise entire K-12 science programs (e.g. better coherence and articulation of concepts across grade levels).

Highlights in 2000-01 included:

- Twenty-nine educators from four school districts and two consortia attended the first IMSA 2061 Introductory Workshop at IMSA. Districts and consortia represented were Homewood Flossmoor C.H.S.D. 233, Oak Lawn-Hometown School District 123, Indian Prairie C.U.S.D. 204, Crete Monee C.U.S.D. 201U, the West Suburban Consortium for Academic Excellence (WSCAE), and MECCA (Metro East Consortium for Child Advocacy). Additionally, a representative from the West 40 Intermediate Service Provider attended the workshop.
- Twenty-nine educators from 20 schools and nine districts within the WSCAE attended the second IMSA 2061 Workshop held at Riverside Brookfield Township High School. WSCAE represents 16 school districts in western Cook County.

2000-2001

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In this report, we recognize cumulative giving of \$125.00 and above during the period July 1, 2000 – June 30, 2001. We also thank the 304 Friends who provided contributions of less than \$125.00.

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Memorial gifts are designated for a variety of uses at IMSA, yet they all have a single purpose – to memorialize the loss of a close friend or loved one. Memorials were received between July 1, 2000 and June 30, 2001 to honor:

Ken Guest – faculty member
Bernard Hollister – faculty member
Julie Namkung ('91)

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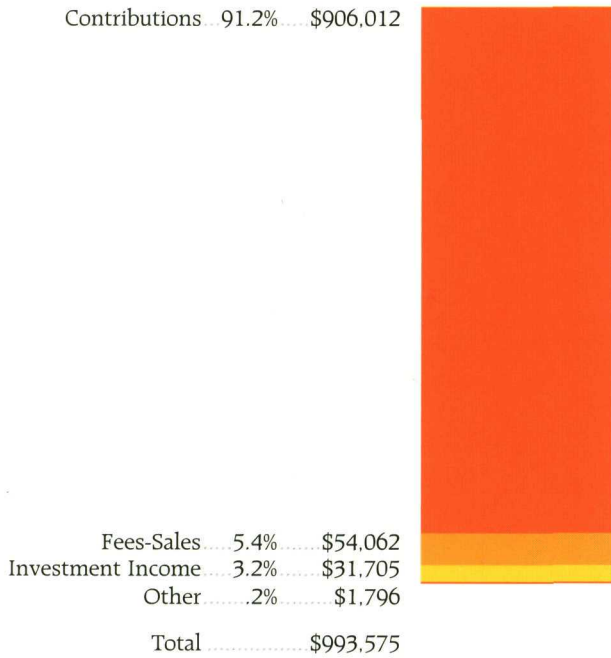
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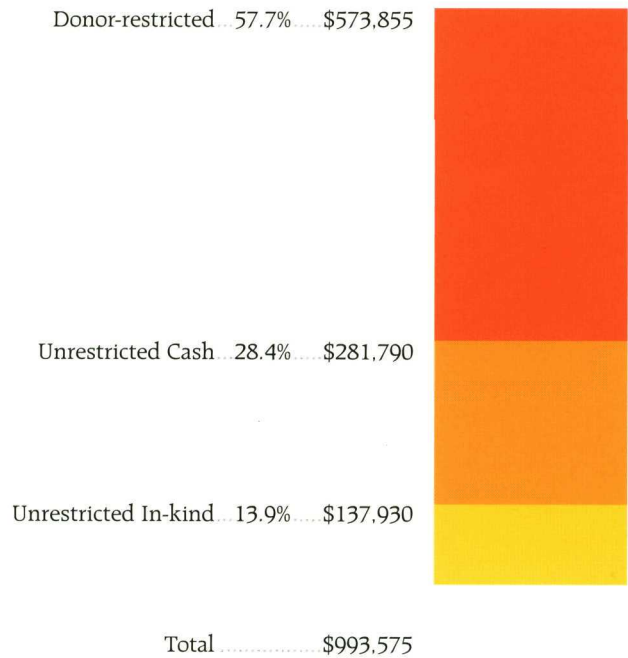
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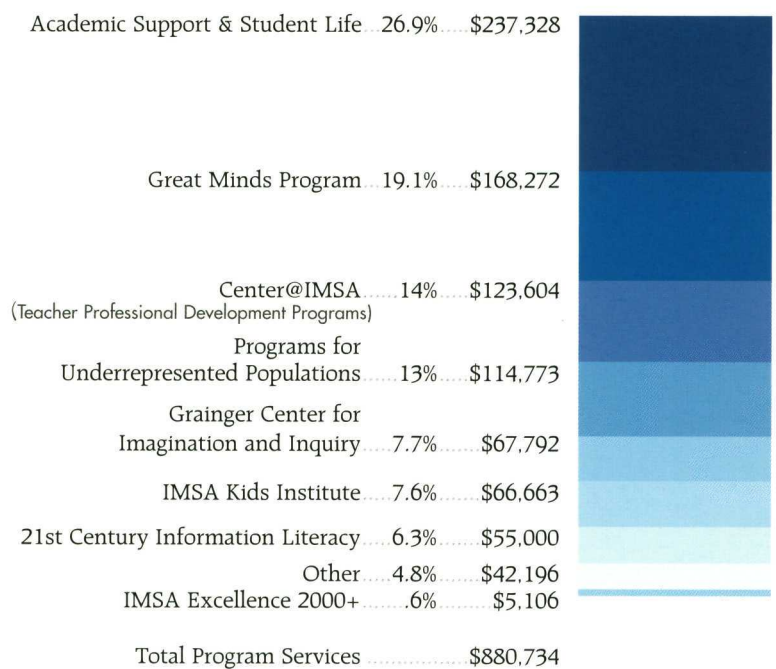
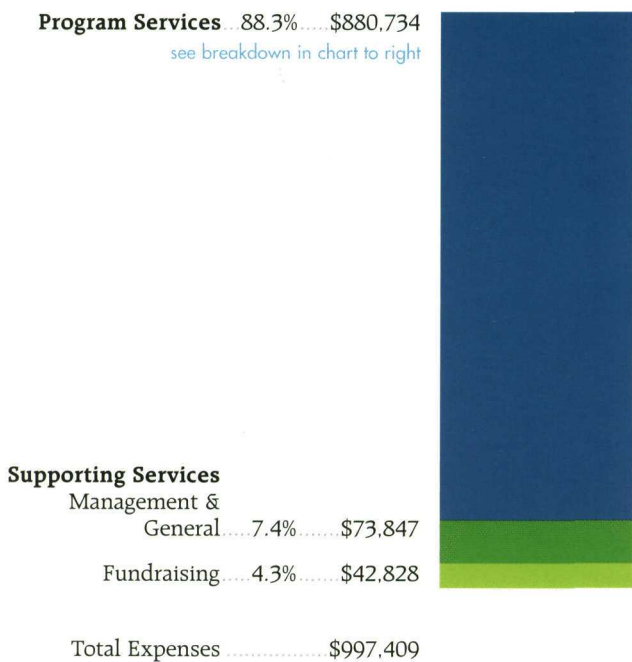
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