College of Science and Mathematics Annual Report 2003

College of Science and Mathematics, Wright State University

Follow this and additional works at: https://corescholar.libraries.wright.edu/cosm_annual_reports

Part of the Higher Education Commons, and the Higher Education Administration Commons

Repository Citation
https://corescholar.libraries.wright.edu/cosm_annual_reports/1

This Report is brought to you for free and open access by the College of Science and Mathematics at CORE Scholar. It has been accepted for inclusion in College of Science and Mathematics Annual Reports by an authorized administrator of CORE Scholar. For more information, please contact library-corescholar@wright.edu.
2003
College of
Science and Mathematics
Fact Book
Accomplishments and Events

**Addressing Complexity conference:** Approximately 150 scientists and researchers from throughout the world discussed the relationship of humans, science and technology at the “Addressing Complexity: Reassessing the Roles of Humans, Science and Technology” conference. The event was co-sponsored by the Cognitive Systems Engineering Consortium (CSEC) and Air Force Research Lab, Human Effectiveness Branch. CSEC is comprised of Wright State University, The Ohio State University, Georgia Institute of Technology, General Dynamics, and Klein Associates.

**Louis Stokes Alliances for Minority Participation (LSAMP) grant awarded:** Wright State University is a member of the newly formed Ohio Science and Engineering Alliance, a consortium of 15 universities and four agencies funded with a $3.5 million National Science Foundation (NSF) grant to boost minority student recruitment and retention in scientific fields. Participating institutions will share successful strategies with the goal of doubling the number of minority undergraduate students receiving bachelor’s degrees in science, technology, engineering and mathematics while increasing the number of minority students seeking graduate degrees or entering the science and engineering professions.

**Pi Epsilon:** Wright State now has a chapter in a new National honor society in the Environmental Sciences, Pi Epsilon. The society will promote the study of environmental sciences through recognition of exemplary scholarly and professional activity and promote interdisciplinary studies and partnerships between industry and academia. Plans call for developing additional chapters at colleges and universities in Ohio and nationwide.

**Third International Symposium on Cell Volume and Signaling:** Thirty-seven speakers from around the globe presented their research at the Dayton, 2003, International Symposium on Cell Volume and Signaling. This event was hosted in the United States for the first time by Wright State University and sponsored by WSU and the National Institute of Diabetes, Digestive and Kidney Diseases, and the National Institutes of Health (NIH).

**Exploring Science:** Several hundred middle and high school students visited the CoSM facilities in December to ‘explore’ science topics. The event has grown in scope, duration and popularity every year. The Exploring Science event will be a week-long in order to accommodate the requests by schools to attend and also to expand/enhance the science modules presented to the visiting students.
Miami Valley Tech Fest: CoSM faculty, staff and students interacted with approximately 2000 visitors at this second annual two-day science festival at Sinclair Community College; attendance doubled from the inaugural event. Interactive displays and activities showed students, parents and teachers from around the State the excitement of hands-on science at WSU.

Trebuchet Competition: The Trebuchet Competition is a broad-spectrum educational event developed in the WSU College of Engineering and Computer Science. CoSM participated in the planning, funding and administration of this event. Many teams of high school students from around Ohio, researched, designed, tested and perfected their designs leading up to a very exciting and competitive exchange on the arena floor of the Nutter Center.

Volunteer station operator for COSI day at Harman School, Oakwood: The Center Of Science and Industry’s “COSI on Wheels” program presented Harman elementary students their Agriculture Adventures module; CoSM staff participated and spoke about the science of farming. Students had the opportunity to experience life on the farm by experimenting with technology used on today's farms, testing soil samples, learn about agriculture in Ohio and the Great Lakes region.

Take Our Daughters and Sons to Work: The College was instrumental in planning and implementing this university-wide event held in April. Over 150 youth came to work with a parent or mentor for the day. CoSM faculty led special sessions for the visitors in Life Sciences, Physics, Chemistry, and Statistics.

Inaugural CoSM Awards and Recognition day: This event, a new tradition in the College, was initiated to recognize faculty, students, and alumni of the College for their accomplishments over the year. The dedicated service of retiring faculty who had served WSU and the College for more than 25 years was recognized with a commemorative chair.

Science Fair Judges: Over 50 CoSM faculty, staff and students contributed a saturday in March to serve as judges at the Miami Valley Science and Engineering Fair (formerly the West District Science Fair). WSU also contributed eight special awards to worthy science projects and provided the registration funds for 17 Dayton Public School students so that they could compete at the district level.
Relationship-Building and Development

CoSM Employee Longevity Lunch: Thirty-three CoSM employees were invited to a lunch with Dean Michele Wheatly in recognition of their 10+ years of service.

Madrigal Dinner: CoSM staff hosted a table of alumni and friends at the long running annual holiday celebration feast and show in the WSU Student Union.

Alumni Lunches: In an effort to build connections with alumni, Dean Wheatly initiated periodic lunches with groups of local graduates from selected departments within the college. Alumni were invited to come back to campus for a brief tour, a lunch and an opportunity to reconnect with faculty, friends, and the university community.

CoSM Raider Basketball & Mexican Fiesta: This inaugural event attracted more than 150 alumni, faculty and staff for a pre-game Mexican Fiesta followed by an exciting Raider victory over Youngstown State.

Campus Scholarship and Innovation Campaign: At a cook-out in early May The COSM recognized the many scholarship recipients in the College and acknowledged the faculty and staff whose gifts to the CSIC made those scholarships possible. College faculty and staff once again increased participation with 34% of the CoSM community contributing $21,458 to the campaign. To show appreciation for their donations to the Campus Scholarship and Innovation Campaign, the Dean and her staff hosted an afternoon coffee and dessert social for the faculty and staff in the college.
Departmental Highlights

**Anatomy and Physiology:**

**Faculty Awards**

Jay Dean was awarded the Brage Golding Distinguished Professor of Research (2003-2006)

Stanley Easley was awarded the Presidential Award for Faculty Excellence: Outstanding Instructor (2003)

Gary Nieder was acknowledged with the SOCHE Award for Innovations in Teaching Excellence, Southwestern Ohio Council for Higher Education

**Undergraduate Honors**

Alihan Sivaganesan (SAP student), Sycamore High School, Cincinnati, OH. NIH Student Apprenticeship Program, Best Poster Presentation. 2003

Isabel Campos STREAMS Program Summer Research Award for Best Poster Presentation 2003

**Faculty Highlights**

Francisco Alvarez taught in the International Neuroscience Ph.D. Program (Doctorado En Neurociencia Y Biologia Del Comportamiento) of the University Pablo de Olavide in Seville, Spain in April.

Thomas Brown was a scientific consultant to Enzyme Systems Products, Inc.; Impheron, Inc.; Biotex Laboratories, Munich, Germany; SRL, Inc. Tokyo, Japan.

Gary L. Nieder served on the Fairborn City Schools Technology Committee which planned for implementation of IT in the K-12 curriculum to meet State guidelines.

Julian Cambronero presented “Inflammation, Neutrophil Chemotaxis and Ribosomal S6K” to the Instituto de Investigaciones Biomedicas (Consejo Superior de Investigaciones Cientificas) in Madrid, Spain.

Dawn Wooley, Ph.D., is part of the Midwest Center of Excellence for Bio-defense and Emerging Infectious Diseases Research. That consortium received a $1 million federal grant to combat a terrorist attack involving biological weapons.

Noel Nussbaum presented “What’s next when a health information network implodes?” to the American Medical Informatics Association in Washington, DC.
Robert Putnam was invited to present a seminar at the International Conference for Comparative Physiology and Biochemistry Meetings entitled Comparative Aspects of Chemoreception in Mt. Buller, Australia.

Stanley Easley has provided tours of the Anatomy dissection labs to over 1,000 students from Montgomery, Greene and surrounding counties. Some students have come from as far away as Cincinnati, Richmond, IN and Antwerp, OH.

Robert Fyffe coordinated and chaired the Neuroscience Symposium that was hosted at Wright State University in November, 2003.

**Biochemistry and Molecular Biology**

**Special Events**

Dr. Susan S. Taylor, Professor of Chemistry and Biochemistry at the University of California, San Diego, presented the Varandani Memorial Lecture on “Dynamic of Signaling by Protein Kinase A”. Dr. Taylor’s laboratory leads the field of kinase signaling research with the detailed molecular analyses of the cAPK catalytic and regulatory subunits and the cAPK anchoring proteins (AKAPs).

Dr. Frances Kendall, a nationally recognized authority on academic diversity, presented a day-long workshop/retreat for the department. This is part of the departments’ continuing commitment to enhance the recruitment and retention of faculty from groups under represented in science.

The department also co-sponsored its first annual "Women in Science" lecture with the Miami Valley Association of Women in Science. The lecture entitled *Women in Science: Progress, Problems and Solutions* was presented by Dr. Karen O'Malley of Washington University, St. Louis. Drs. Ina Bicknell and Madhavi Kadakia coordinated the event, which included a second lecture/discussion on issues facing women scientists.

**Research Highlights**

A Center for Genomics Research (CGR) was established by the Wright State University Board of Trustees. The CGR, directed by Dr. Steven Berberich, with Dr. Madhavi Kadakia as co-director, utilizes state-of-the-art gene chip technology to foster genomic studies among faculty at WSU and with our partner institution at the Genome Research Institute in Cincinnati.

Dr. Lawrence Prochaska received a research endowment of over $850,000 from the estate of Mrs. Emily Webb, a benefactor of the department. These funds will be used for Dr. Prochaska's studies into the mechanisms of mitochondrial function in coronary and neuronal tissues.
Dr. John Turchi was awarded a $343,000 Idea Development Award from the U.S. Department of Defense to perform ovarian cancer research. Dr. Turchi will study the factors that contribute to a cancer becoming sensitive or resistant to drugs used to treat ovarian cancer.

Faculty Highlights
Drs. Steven Berberich, Mithua Ghosh, Maloy Ghosh, Madhavi Kadakia, and Michael Leffak participated in the WSU School of Medicine’s Mini-Medical School as presenters. Drs. Steve Patrick and John Turchi presented their research at the 8th International Workshop on Ataxia Telangiectasia in Queensland, Australia.

Biological Sciences:
Faculty Highlights
Dr. Dan Krane hosted and organized a national “Expert Forum on Forensic DNA Testing” that was attended by 12 nationally recognized scientific experts as well as approximately 30 criminal defense attorneys from around the country. Continuing legal education credit for the forum was approved by the Supreme Courts of Ohio, Indiana and Kentucky.

G. Allen Burton Jr., Ph.D., director of the Institute for Environmental Quality at Wright State, was the principal investigator for the April to August study at Wolf Creek. The report by Burton and McWilliam which was funded by the City of Dayton in response to state and federal requirements, was designed to better delineate water quality problems originating from storm water or bed sediments along this beautiful creek and to incorporate findings from two previous studies on Wolf Creek for a more comprehensive assessment of storm water effects.

Thomas Van’t Hof, Ph.D., an assistant professor of biological sciences, recently returned from Japan, where he presented lectures and conducted research on circadian (24-hour) rhythms in birds. He visited Okayama University of Science, a sister university of Wright State, plus the University of Tokyo and Nagoya University.

Awards to Faculty, Staff, Students
Dr. Wayne Carmichael was a visiting Professor-Paris Chair at Ecole Superiore Physics and Chemistry-(ESPCI)-June/July-2003-Paris, France. Host, Prof Marie-Claire Hennion, lab for environmental chemistry.

Dan Cipollini received the Presidential Award for Faculty Excellence: Early Career Achievement.

Dr. Tim Wood received the Robert J. Keggereis award for distinguished teaching.
Outreach Programs

Dr. Jim Amon worked with Jim O'Boyle, naturalist for the US Army Corps of Engineers, trading wetland plants for access to salamander eggs used to stock a restoration site and he worked with Montgomery County Sanitary Engineering to plan a three and ten year strategy for reduction of excess phosphorous in their discharge waters.

Dr. Wayne Carmichael provided expert advice to a variety of prominent agencies and governmental offices: consulted with the Province of Quebec regarding a physician inquiry about toxic cyanobacteria guidelines; advised the US Fish and Wildlife Service in Nebraska regarding cyanobacteria toxicity in waterfowl; analyzed a human sample in a case of suspected Fugu poisoning, for the Franklin County, Ohio Coroner’s Office; and consulted with the Dane County, Wisconsin Coroner’s Office regarding a human mortality possibly caused by algal toxicity.

Dr. Barbara Hull served on the Board of Directors and Admissions Committee, Honor Seminars of Metropolitan Dayton

Dr. James Runkle was a BioBlitz participant to catalog biodiversity for a project coordinated by Boonshoft Museum.

Student Award

The Wright State University Board of Trustees awarded James R. Boss the Trustees Scholarship in recognition of his exceptional academic achievement and leadership qualities. The four-year scholarship award covers tuition, fees, room and board and provides a book allowance. Boss, a 2003 graduate of Port Clinton High School, is majoring in biological sciences at Wright State. He was valedictorian of his high school class.

Student Clubs and Activities

Biology Club: Activities included “academic” meetings (e.g., presentations from faculty and others on various topics, such as department research, bioinformatics, or forensic biotechnology), service activities (e.g. promoting recycling, maintaining trails), and “exploration” (e.g. trips to Cincinnati Zoo).
Chemistry
Special Events and Symposia
Dr. J. M. Frechet, Professor of Chemistry, University of California, Berkeley presented "Functional macromolecules: from design to applications in chemistry and medicine" at the first Procter and Gamble Lectureship Seminar.

Dr. David Dolson chaired a session of the “Spectroscopy” symposium at the 3rd Singapore International Chemical Conference, Shangri-La Hotel, Singapore.

Dr. Steven Higgins was the invited organizer for the Mineral Surface Reactivity Symposium at the 2004 V.M. Goldschmidt Conference in Copenhagen, Denmark.

Dr. Dan Ketcha was a co-organizer for an NSF workshop on “Solid Phase Synthesis and Combinatorial Chemistry” held at Miami University.

Dr. Vladimir Katovic was invited to evaluate 4 chemistry departments in Croatia.

Faculty Highlights
Dr. David Portlock served on a National Institute of Health/National Institute of General Medical Sciences study section to review research proposals for “Centers of Excellence in Chemical Methodologies and Library Development.”

Dr. Roger Gilpin served on three NIH SSS6 Technology Transfer and Innovative Research Review committees.

Dr. Ken Turnbull served on a review panel for the U.S. Civilian Research and Development Foundation and is a scientific editor and control board member for ARKIVOC.

Dr. Paul Seybold is on the advisory board of Chemistry & Biodiversity and the Ohio Molecular Computation and Simulation Network.

Student Awards
Brian Brumfield was awarded a Graduate Council Fellowship.
Steve Peterangelo was awarded “Best Graduate Poster” at the Dayton ACS Patterson Award Meeting.

Laura Bedrossian received the 2nd Place Poster award at the Kentuckiana Undergraduate Research Symposium at the University of Louisville.
Faculty Awards

Dr. Paul Seybold was appointed an external fellow of the Center for the Study of Biological Complexity at Virginia Commonwealth University, Richmond, VA.

Outreach Programs

Project RISE (Rural Integrated Science Education) led by Dr. Suzanne Lunsford and Dr. William Slattery for teachers pursuing a masters degree in science. 24 Teachers participated from a 150 mile radius around Wright State University, impacting over 5000 students in science education.

The Chemistry Demonstration Program, led by Professor Emeriti Rubin Battino and John Fortman, with Andrea Burns, students, and staff, reaches roughly 7500-8000 high school, junior high, and grade school students each year with multiple presentations in December and March. It is probably the largest chemistry outreach program in the nation.

Suzanne Lunsford helped coordinate the CLASS Project Initiative "Developing chemistry lessons for students with physical disabilities."

Geological Sciences:

Faculty Highlights

Dr. Ernest Hauser Participated in the Ohio Seis Workshop, Ohio Geological Survey at Alum Creek.

Dr. William Slattery was a session Chair for volunteering in K-12 settings at the Geological Society of America Annual Meeting, Seattle, Washington

Dr. Abinash Agrawal is a member of the review committee of the USDA Small Business Innovative Research which evaluates research proposals submitted to the USDA annually for funding in the field of environmental restoration and management technologies.

Dr. Cindy Carney offered a One-day workshop at Ohio University, “An Island As An Environment”.

Dr. David F. Dominic spent several months at Binghamton University studying the relationship between the stratigraphic deposition of sedimentary rocks and their permeability.

Dr. Abinash Agrawal studied the characterization of key processes and signatures that express geochemistry of soil particles in the presence of natural biomolecules at John Hopkins University.

The department hosted 10 colloquiums
Student Awards
Erika Josson and Christy Jacobs were awarded the Ohio Gem and Mineral Scholarship for Academic Excellence in Earth Science

Outreach Programs
GEO Program: The Geological Sciences Educational Outreach Program provides lessons for elementary, middle, and high school teachers in the Miami Valley. Students from the Geology Department visit the schools and present the material. Five students from the geology department taught sessions for approximately 500 students who participated in the program.

Earth Science Week increases awareness of earth science by providing information on environmental issues both locally and globally and provides information about Ohio geology. Student members of AIPG and SGE participated.

Predator and Prey is a program designed for students in the Mini University. Dr. Roderic Brame introduced predation during the time of the dinosaurs.

Student Clubs
Student clubs, which include the American Institute of Professional Geologists (AIPG) in the Department of Geology participated in the Adopt-a-Highway program, sponsored a meeting for the Ohio Section of AIPG, participated in Earth Science Week activities, and offered programs for elementary, middle, and high school students

Mathematics and Statistics
Faculty highlights
Dr. Dan Voss attended and helped organize New Directions in Experimental Design conference, Chicago, Illinois.

Dr. Ann M. Farrell presented "Stand Up and be Counted, Collaborative 21 Principals Institute and Mathematics Connections within a Program for Preparing Middle School Mathematics Teachers" at the AMTE Annual Conference in Atlanta, GA. with separate presentations to Montgomery and Clark County principals and curriculum directors.

Drs. Svobodny, Tian and Vance were Co-Organizers of NCSI Computational Science Workshop.

The department presented 22 national and international colloquiums

Professional Development Leave
Dr. Kimberly J. Kinateder was on professional development leave during the 2003-4 academic year, working with collaborators in
the Department of Finance at The Ohio State University and also at American Electric Power, both in Columbus. Her research projects involved the probabilistic modeling and statistical analysis of electricity prices and the price of the option to store natural gas.

Dr. Weizhen Wang was on professional development leave in the Department of Statistics at The Ohio State University, conducting research in multiple inferences, stepwise procedures and categorical analysis with Professors Jason Hsu (OSU), Tomas Santner (OSU), Dan Voss (WSU) and Samuel Wu (UF).

Awards to Faculty, Staff, Students
Dr. Ann M. Farrell was nominated for Association for Women in Mathematics Louise Hay Award.

Dr. Qingbo Huang received the CoSM Outstanding Teaching Award.

Outreach Programs
Dr. K.T. Arasu provided 100 hours of research experience for five regional high school teachers (funded by NSF).

Dr. Ann M. Farrell is a mentor for a STARS student, who is conducting research on the relationship between middle and high school students’ reading achievement and performance in mathematics proficiency exams.

Dr. Susann M. Mathews is the mathematics consultant for Engaging Math and Technology, sponsored by the Upper Miami Valley Tech Prep Consortium for regional and secondary mathematics teachers.

Dr. Richard Mercer is the WSU Institutional representative for the Goldwater Scholarship Competition (responsible for publicity, recruiting candidates, selecting nominees).

Dr. Munsup Seoh is a member of the planning committee and webmaster for the State Conference and president of the Affiliate Association of WSU Retiree Association, and serves as the member representative to the Board of Trustees.

Student Awards
Micah Fuerst, a junior majoring in mathematics, was one of 310 recipients from among 1,100 nominees Nationwide chosen for the prestigious Goldwater Scholarship. The award, named after former Arizona Senator Barry Goldwater, is presented annually to undergraduate sophomores and juniors who excel in mathematics, natural science or engineering.
Faculty Highlights

Dr. Beth Basista presented "One Season of Science and Math Professional Development" at the School Science and Mathematics Conference in Columbus, OH (with S. Mathews) and "Issues, Challenges, and Opportunities in Science and Mathematics Integration" at the Mathematics, Science, and Technology Educators and Researchers Seventh Annual Spring Conference at The Ohio State University (with S. Mathews).

Dr. Brent D. Foy presented “Simulating the Interactions of Genes, Proteins, and Metabolites in Cell-like Entities” at the AFOSR Bioinspired Concepts program review, in Annapolis, MD and “A Gene Expression Model of Glutathione Metabolism in Primary Rat Hepatocytes” at the Intl. Conf. on Systems Biology in St. Louis, MO.

Dr. Douglas T. Petkie presented “Millimeter- and Sub-Millimeter-Wave Rotational Spectroscopy” at the Engineering Physics Dept. Colloquium at the Air Force Institute of Technology, WPAFB, OH and “Rotational Spectroscopy of Peroxynitric Acid,” at the 58th Ohio State University International Symposium on Molecular Spectroscopy in Columbus, OH.

Dr. Thomas E. Skinner presented "BEBOP: Broadband Excitation Which Provides a Significant Leap in Performance," at the 44th Experimental NMR Conference in Savannah, GA.

The department hosted 21 colloquiums

Student awards

Sigma Pi Sigma Physics Honorary Society held a joint induction ceremony with the University of Dayton.

The Southwestern Ohio Council for Higher Education (SOCHE) recently honored Dean Brown, a senior majoring in engineering physics, as the Student Research Program Student Employee of the Year. As an intern at the Air Force Research Lab Materials Directorate at Wright-Patterson Air Force Base, Brown is using lasers to create new optical material by adding unique properties to plastic.

6 students graduated with a MS degree

2003 Student Clubs

Society of Physics Students co-organized weekly seminars by both the physics faculty and M.S. thesis students dealing with their research, provided demonstrations at the WSU Physics table at Techfest and inducted five students into the Sigma Pi Sigma Physics Honorary Society
Psychology
Faculty Highlights

Dr. Bennett, was invited to be a subject matter expert (panel member) at a workshop on Decision Support Systems sponsored by the Air Force Office of Scientific Research in Fairfax, VA. He is also a member of the Human Factors and Ergonomics Society Accreditation Review Committee for the evaluation and accreditation of graduate programs and chaired a Task Force to investigate issues in the accreditation of undergraduate programs by the Human Factors and Ergonomics Society.

Dr. Hennessy was an invited participant in Dahlem conference on Attachment and Bonding: a new Synthesis in Berlin Germany. He is a member of the National Scientific Advisory Board for the California National Primate Research Center, Davis, CA.

Dr. Schneider gave invited talks at the University of Texas Medical Branch in Galveston, TX, the Women’s Health Conference in Dayton and to the executive committee of the Hipple Cancer Research Center.

Dr. Pamela Tsang organized and chaired the symposium titled The Mediating Role of Aviation Expertise in Cognitive Aging for the 12th International Symposium on Aviation Psychology.

Dr. Debra Steele-Johnson is a member of the William A. Owens Scholarly Achievement Award Committee for the Society for Industrial and Organization Psychology.

Dr. Wayne Shebilske is collaborating with Texas A&M University and Penn State University in a $5 million project to develop Collaborative Agents for Simulating Teamwork (CAST), a sophisticated software program that helps team members sort through information overload and make quicker decisions.

Professional Development Leave

Dr. Scott Watamaniuk, Conducted research on pursuit eye movements, saccadic eye movements, and perception for action at The Smith-Kettlewell Eye Research Institute in San Francisco, CA.

Dr. John Flach was a visiting professor in the Departments of Aeronautical, Mechanical, and Industrial Design Engineering TU Delft taught courses on cognitive systems in Sweden, Denmark, and the Netherlands.

Dr. Valerie Shalin worked on the NASA Mars Exploration Rover project (MER) in Pasadena California. Wright State has been recognized with two NASA/Ames team awards as a result of her efforts: 2003 Ames Honor Awards to the Code I MER Technology Infusion team and 2004
Headquarters award "Turning Goals into Reality" for the all of the MER tools.

Faculty awards
Dr. Kurdek received the award for distinguished scientific contribution, Division 44 (Society for the Psychological Study of Lesbian, Gay, and Bisexual Issues) American Psychological Association.

Outreach Programs
Dr. Gooden has participated as chair, group facilitator and program evaluator for the Dayton Dialogue on Race Relations: A diversity initiative sponsored by the University Diversity Advisory Council (UDAC) involving small group dialogues centering around race related issues on campus.

Dr. Allen Nagy mentored a high school program during the Summer Apprentice Program.

Student Clubs
Psychology Club and Psi Chi organized faculty to present material on the graduate school application process, invited speakers from WSU graduate programs to talk about their programs, provided a forum for student interaction and networking to help learn about future planning and careers opportunities, (developed fundraising events to sponsor student travel to a professional psychological meeting held in May in Chicago), and annually induct new members into Psi Chi.
Center Highlights

Statistical Consulting Center (SCC)
Over the last year the SCC worked with 123 clients. Both on and off campus clients were provided with consulting services including but not limited to research design, data entry/management, database construction, data analysis, and interpretation of statistical results. 8% of SCC’s effort was devoted to external clients.

Miami Valley Health Improvement Council, Cardiology South, and Hayden Safety Engineers are some of the external clients with whom the SCC worked.

Presentations were made to incoming faculty, graduate students, and all Biomedical Sciences Ph.D. students.

SCC has developed several short-courses which include “Advanced Statistical Methods for Nursing Research” for graduate students in the College of Nursing and Health, “Survey of Statistical Methods for Biomedical Sciences Researchers” for the Biomedical Sciences PhD program and “practical Statistics Without Tears for the Clinician” for the new MPH program.

The SCC purchased an NCS Pearson opscan reader and accompanying software. This was done to meet the client demand for customized development of bubble-sheet survey forms.

Institute for Environmental Quality (IEQ)
Implemented a new COSM GE Course “Environmental Science and Society: A Cross Cultural Perspective”.

Hosted a visiting international scientist from Brazil.

Through support from the University Center for International Education and the IEQ, Hunt Brown investigated environmental issues during a trip to Haiti.

Assisted the Medical School in obtaining approval for a new MPH program.

Supported development of a new National honorary society for environmental sciences “Pi Epsilon”.

Hosted the first Environmental Sciences Symposium for the new PhD Program.

Hunt Brown was elected President of the local chapter of the Phi Beta Delta Honor Society for International Scholars.

Allen Burton was elected to the Phi Beta Delta International Honor Society and the World Council of the Society of Environmental Toxicology & Chemistry.

Allen Burton presented keynote lectures at international meetings of environmental toxicology in Argentina and Mexico.
Summary Statistics

COSM Faculty Productivity:
144 refereed journal articles and book chapters
309 presentations and invited talks
74 faculty were invited to participate or chair symposia
28 faculty are members of editorial boards
39 faculty are study section members of a granting agency
(detailed information by faculty and department available at www.wright.edu/cosm/facts)

COSM Research Funding:
College Departments
211 proposals submitted for a total of $33,926,193
152 proposals funded for a total of $5,328,122
Matrix Departments
23 proposals submitted for a total of $7,516,431
23 proposals funded for a total of $3,486,981
(detailed information by faculty and department available at www.wright.edu/cosm/facts)

COSM Enrollment Data

Undergraduate degree programs:
2.91 CoSM undergraduate majors mean GPA
7 undergraduate programs, including 9 majors and 8 minors
1212 students enrolled with a major in an undergraduate CoSM program
309 students graduated with a major in CoSM
38 students graduated with honors, including 19 general studies honors scholars, 7 departmental honors scholars, and 12 university honors scholars
30 students graduated with a minor in CoSM
(detailed information by department available at www.wright.edu/cosm/facts)

Masters degree programs:
3.752 CoSM graduate majors mean GPA
14 masters program in the college
238 students enrolled
80 students graduated
Scholarships

374 CoSM undergraduate students received a scholarship
$1,375,800 awarded to undergraduate CoSM majors

71 CoSM graduate students received a scholarship
$453,448 awarded to graduate CoSM majors

Ph.D. Program Information and Statistics

Biomedical Sciences Ph.D. Programs:
46 students were enrolled in the BMS Ph.D. program - all received support from a variety of sources including program fellowships, faculty grants, and external fellowships
8 students graduated in 2003
13 students entered the program 2003
15 students made program-sponsored trips to present research at national or international meetings - 2 of these students received Outstanding Presentation Awards

Human Factors and Industrial/Organizational Psychology Ph.D. Program:
30 students were enrolled in the HF and I/O Ph.D. Program
6 students entered the program for Fall, 2003
1 students graduated
26 students received support from sources including departmental support and faculty grants
1 student was awarded a Graduate Council Scholarship
20 students make program-sponsored trips to attend or present at national or international conferences

Environmental Sciences Ph.D. Programs:
New Ph.D. curriculum, bylaws, policies and procedures, and committees were implemented. Also, recruitment for the Ph.D. program started at national meetings and via professional society newsletters for biology, chemistry, geology, physics, and toxicology professionals.
22 students accepted into the new program
17 students are on assistantships
1 Ph.D. student attended an international wetlands meeting in New Orleans and also a State meeting in Columbus.