



College of Letters & Science Annual Report
2004-2005

Gary Sandefur, Dean

Contents

Executive Summary

Research — 1

Education — 5

Human Resources — 7

Outreach — 11

Internationalization — 13

Honors — 15

Executive Summary

In 2004-05, the College of Letters & Science underwent a transition in leadership, including the Dean of Letters & Science, Associate Dean for Research and Outreach, and Associate Dean for Student Academic Affairs. During this period, Letters & Science faculty and staff continued to make progress on existing initiatives that support of UW-Madison's strategic priorities while adapting programs and activities in support of the new dean's strategic priorities. College accomplishments during this period of transition include:

- ❖ Articulation of four college priority areas of focus and realigned development initiatives to support priorities in:
 1. Undergraduate Education
 2. Research Pre-eminence
 3. Diversity
 4. Climate
- ❖ An intensive review and reconfiguration of Student Academic Affairs (SAA) to better align programs and staff with student needs, improve climate, create operating efficiencies, and establish SAA as a model student services unit on campus and nationally.
- ❖ Improvement in faculty retention success through enhanced monitoring of outside offers and through pre-emptive and targeted counter-offers.
- ❖ Began work toward implementing the recommendations of the committee created under Dean Certain to review administration and award procedures for Letters & Science undergraduate scholarships.
- ❖ Election of 6 women and 1 African American man as chairs of 7 of 11 natural science and mathematics departments in Letters & Science.
- ❖ Partnership with the University of Wisconsin Foundation to secure a lead gift and subsequent major gifts to expand and enhance facilities for the Elvehjem Museum of Art, now renamed the museum the "Chazen Museum of Art."
- ❖ Implemented a system to gather and analyze data on outside offers and retention offers to Letters & Science faculty in response to an upsurge of successful outside offers in 2003-2004.
- ❖ Secured faculty approval for the Curriculum Committee's recommended changes to Letters & Science degree requirements.
- ❖ Completion of the review and recommended amendments to the list of courses that qualify to meet the ethnic studies requirement.

Areas of focus in 2005-2006 include:

- ❖ Continue to make progress toward completing faculty strategic cluster hires.
- ❖ Dedicate the South Africa Large Telescope and share the results of first light with audiences on campus, in Wisconsin, and beyond.
- ❖ Facilitate participation in creating the Discovery Institute by the faculty, staff, and Departments of Chemistry, Computer Sciences, and Statistics and other Letters & Science units.

(continued on the next page)

- ☞ Continue to build and support interdisciplinary cross-campus collaborations through Letters & Science faculty, staff, and units.
- ☞ Complete the search for the Associate Dean of Letters & Science Student Academic Affairs.
- ☞ Develop and implement a strategy to increase Letters & Science Student Academic Affairs identity and visibility among audiences on and off campus.
- ☞ Develop and implement a strategy to improve community between Letters & Science Student Academic Affairs and colleagues with Letters & Science and across campus.
- ☞ Develop and implement a comprehensive system for advertising, awarding, and administering college-wide scholarships.
- ☞ Developing strategies to accommodate anticipated significant growth in the number of PEOPLE program students who are graduating from high school and preparing to participate in the Summer Collegiate Experience program.
- ☞ Exploration of ways that student-focused delivery might be shaped to address the needs of students of color and first-generation college students at UW-Madison.
- ☞ Improving data collection and assessment of SAA student services units.
- ☞ Continued emphasis on resources for faculty research, faculty and staff recruitment and retention, and for undergraduate scholarships and programs in Letters & Science development activities.


Dean of Letters & Science



Research Expenditures 2003 – 2004

UW-Madison – \$645,124,285

Letters & Science – \$94,042,095 (15%)

Federal (144) Grants Awarded to Letters & Science PI's, July 1, 2004 – June 19, 2005¹

Awarded Through L&S – 460 awards
\$ 74,934,426

Awarded Through Other Units – 101 awards
\$141,407,108

TOTAL Federal 144 Awards to L&S PI's:
\$216,341,534

TOTAL Federal 144 Awards to UW-Madison:
\$550,255,288

Research Awards From Wisconsin Government or Private Organizations, 2004-2005: over \$1.5 million

Research Awards from Corporate Sources, 2004-2005: over \$1.8 million

Invention Disclosures July 1, 2004 - June 9, 2005: 35

EXAMPLES OF 2004-2005 AWARDS FOR RESEARCH THAT BENEFITS WISCONSIN:

James Kitchell, director of the Center for Limnology, \$170,497 from the WI Department of Natural Resources for the study, "Measuring and Modeling the Source, Transport, and Bioavailability of Phosphorus in Agricultural Watersheds."

John Karl Scholz, economics and Institute for Research on Poverty – \$10,000 from the WI Department of Workforce Development to produce a CD-ROM on personal financial education.

Emily Stanley, zoology and Center for Limnology – \$495,000 from the USDA for research on the effects of dam removal on nutrient retention in agriculturally-dominated streams.

Letters & Science Undergraduate Research Programs:

- ❖ First-Year Interest Groups (FIGS)
- ❖ Letters & Science Honors Program
- ❖ Pathways Research Scholars
- ❖ Undergraduate Research Scholars

Letters & Science Faculty and Staff Mentoring Undergraduate Research:

Hilldale Undergraduate Research Awards
42 of 82 projects

Holstrom Environmental Research Scholarships
1 of 5 projects

Undergraduate Research Scholars
47 of 137 projects

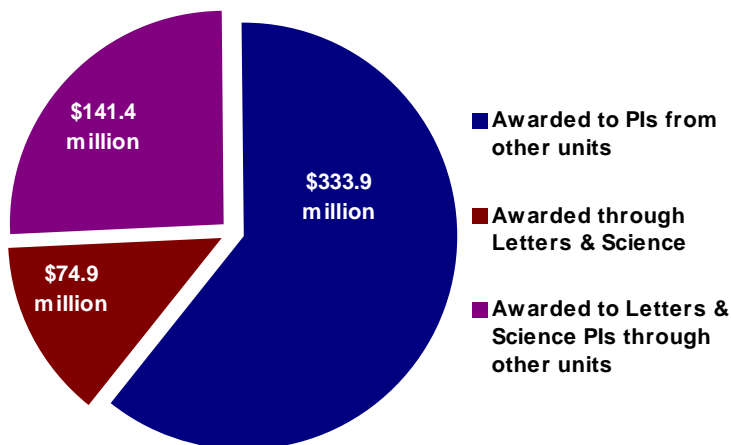
(all projects coordinated through Letters & Science)

Undergraduate Research Symposium

76 projects involving 88 students out of 210 projects presented at the symposium

The College of Letters & Science is one of UW–Madison's largest research units, typically ranking third behind the Medical School and the Graduate School in grants administered. If all grants awarded to Letters and Science faculty and staff Principal Investigators are included in the data, Letters and Science is the second largest generator of external research funding at UW– Madison.

144 AWARDS TO UW-MADISON PIs July 1, 2004 - June 19, 2005



Research and education are inseparable activities in Letters & Science. Faculty and staff engaged in leading edge research integrate their methods and results into their classroom teaching, ensuring that undergraduate and graduate students are learning the most current information available. They also use their techniques and expertise to mentor research projects at the graduate and undergraduate levels and, through outreach initiatives, high school students.

Our ability to preserve and enhance our research pre-eminence rests on our ability to retain top faculty and staff and develop new ways to fund research in the face of dwindling federal support for competitive research grants. For that reason, we have increased our focus on building support for Letters & Science faculty and research through partnerships with the business sector and through individuals and organizations that are in a position to support our work through gifts or other measures.

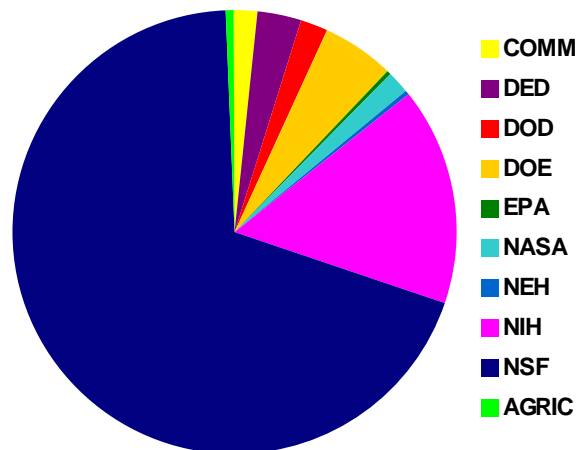
2004-2005 highlights of Letters & Science faculty and staff research results include:

- Evidence that phonics is critical for developing skilled readers.
- ❖ Successful use of single bacterial cells to make tiny bio-electronic circuits.
- ❖ Understanding of how the loss of seemingly inconsequential animal species in the top 6 inches of mud and sediment on the floors of the world's oceans can provide insight into the consequences of the steady decline of the world's biological diversity.
- ❖ Development of artificial chemicals that infiltrate and sabotage bacterial "mobs" to thwart persistent bacterial infections and better control group behaviors of certain microorganisms.
- ❖ Evidence that eye contact triggers threat signals in autistic children's brains.
- ❖ Refutation of the popular theory that deficits in certain visual processes cause the spelling and reading woes commonly suffered by dyslexics.
- ❖ Documentation that the buildup of phosphorus in soils in lake watersheds is likely to be the source of serious chronic environmental problems for hundreds of years.

Highlights of 2004-2005 Letters & Science student research include:

- ❖ Daniel Hyslop, a senior majoring in geology made national news with his discovery that *Tyrannosaurus Rex* removed the meat from the ribs and bones of its prey by scraping the bone along its teeth in ways similar to the way that humans eat barbecued ribs. He presented his findings, which offer new insights into the mechanics of how *T. Rex* ate, at the annual meetings of the Geological Society of America.
- ❖ Karl Marhlburg a graduate student in the Department of Mathematics, made national news by solving a crucial element of a puzzle created by math legend Srinivasa Ramanujan.

**AWARDS TO LETTERS & SCIENCE PIs
JULY 2004 - JUNE 19, 2005
BY FUNDING AGENCY**



- ❖ At the meetings of the American Chemical Society, chemistry graduate student Anne Bentley presented her research on how suspended nickel wires - each 200 times thinner than a human hair - could one day serve as magneto-optical switches that could aid in fields such as photonics, where light, rather than electricity, relays information.
- ❖ Zoology graduate student Brian Roth presented research at the Ecological Society of America showing that rusty crayfish, an invasive species throughout the United States and Canada, may either take over or be a minor influence in a water system depending on the type of interaction among crayfish, fish, and aquatic plants. This knowledge may lead to new strategies for removing this invasive species.

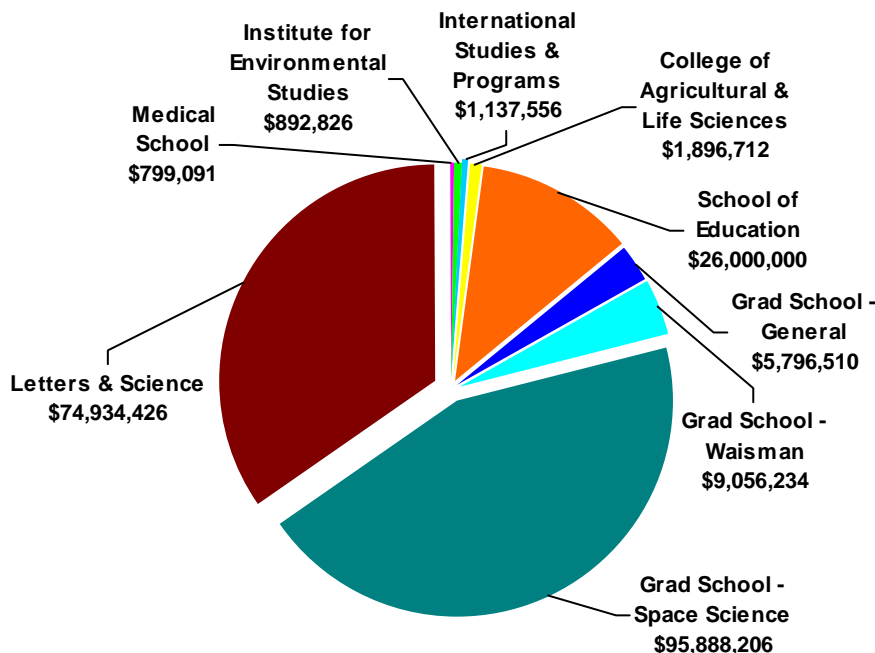
In 2004-2005, Letters & Science research and graduate training benefited Wisconsin through:

- ❖ Seventy-four partnerships with Wisconsin government agencies and private organizations. These partnerships

**Federal 144 Fund Awards to UW-Madison and Letters & Science PIs July 1, 2004 – June 18, 2005
(for Selected Federal Funding Agencies)**

Selected Federal Funding Agencies	UW-MADISON		ALL LETTERS & SCIENCE PIs	
	No. Awards	\$ Amount	No. Awards	\$ Amount
COMM	22	\$6,971,615	7	\$3,714,426
DED	68	\$16,693,375	26	\$7,300,712
DOD	118	\$22,233,106	22	\$4,019,602
DOE	187	\$26,739,673	43	\$11,256,907
EPA	32	\$1,952,233	6	\$286,147
NASA	103	\$9,660,040	51	\$4,023,389
NEH	12	\$475,581	11	\$373,913
NIH	969	\$235,554,036	133	\$34,208,020
NSF	398	\$185,947,848	223	\$148,251,345
AGRIC	203	\$15,743,369	5	\$1,103,400
ALL 144 Funds	2,318	\$550,255,288	560	\$216,341,534
		Awards Administered by Letters & Science:		\$74,934,226
		Awards Administered Elsewhere on campus:		\$141,407,108

**ADMINISTRATION OF
AWARDS TO LETTERS & SCIENCE PIs
JULY 2004 - JUNE 19, 2005**



included over \$1.5 million in funded projects in the arts and humanities, social sciences, and natural sciences.

- ❖ An annual average of more than \$2.5 million in competitive federal grants brought to northern Wisconsin through the college's Trout Lake Research Station. The Trout Lake Research Station receives around \$100,000 in Wisconsin GPR funding each year. In addition to the economic and scientific benefit of Trout Lake research grants, the researchers from UW-Madison and other institutions who use the facility help the regional economy through the funds that they spend on housing, food, supplies, and entertainment while on site.
- ❖ Over \$6.3 million in new competitive federal research grant awards for projects that address challenges and potential solutions to problems facing Wisconsin in areas such as workforce development, water quality, public policy, and other fields.
- ❖ Spin-off companies such as Third Wave Molecular Diagnostics, which was one of eleven companies added to the NASDAQ Biotechnology Index in November 2004. Founded by chemistry Professor Lloyd Smith and Jim Dahlburg, the company employs over 175 people and was preparing eight new products for release in 2005.
- ❖ Companies such as Epic Systems, founded by our alumni and based in Wisconsin. Epic Systems was founded by Judy Faulkner (MS '67, computer sciences). In 2004-05, Epic Systems launched a \$ 150 million expansion project in Verona for its 2,000 person - and growing - workforce.

Areas of focus for 2006-2007 include:

- Continue to make progress toward completing faculty strategic cluster hires.
- Dedicate the South Africa Large Telescope and share the results of first light with audiences on campus, in Wisconsin, and beyond.
- Facilitate participation in creating the Discovery Institute by the faculty, staff, and Departments of Chemistry, Computer Sciences, and Statistics and other Letters & Science units.
- Continue to build and support interdisciplinary cross-campus

Letters & Science Interdisciplinary Research Centers and Programs:

- ❖ Antarctic Astronomy and Astrophysics Research Institute
- ❖ Center for the Study of the American Constitution
- ❖ Center on Business and Poverty
- ❖ History of Cartography Project
- ❖ Center for Communication Research
- ❖ Center for Demography and Ecology
- ❖ Center for the Demography of Health and Aging
- ❖ Dictionary of American Regional English
- ❖ Center for Environmental Communication and Education Studies
- ❖ Wisconsin Center for Film and Theater Research
- ❖ Center for Geographic Analysis
- ❖ Center for Geophysics and Polar Research
- ❖ Center for Geomicrobiology
- ❖ Max Kade Institute for German-American Studies
- ❖ Global Languages, Literatures, and Cultures Forum
- ❖ Health Economics Research Center
- ❖ Center for the History of Print Culture in Modern America
- ❖ Institute for Research in the Humanities
- ❖ Center for Law and Behavioral Science
- ❖ Center for Limnology
- ❖ Center for Magnetic Self-Organization in Laboratory and Astrophysical Plasmas
- ❖ Seminary of Medieval Spanish Studies
- ❖ Institute for Research on Poverty
- ❖ Wisconsin Center for Pushkin Studies
- ❖ Social Science Computing Cooperative
- ❖ Social Behavior Research Center
- ❖ Social Systems Research Institute
- ❖ University of Wisconsin Survey Center
- ❖ Theoretical Chemistry Institute
- ❖ Center for the Study of Upper Midwestern Cultures
- ❖ The Wavelet IDR Center
- ❖ Center on Wisconsin Strategy (COWS)
- ❖ Center for the Wisconsin Economy

collaborations through Letters & Science faculty, staff, and units.

Giving Back To Wisconsin

Examples of Research and Outreach Projects by Letters & Science Faculty, Staff, and Students

1. VILAS AND ADJACENT COUNTIES

- ❖ Trout Lake Research Station
- ❖ Allequash Creek Project : 1) inorganic carbon cycling, 2) wetland stream geomorphology
- ❖ Causes and Consequences of Land Use Change and Biocomplexity
- ❖ Exotic Species Removal in Sparkling Lake
- ❖ Experimental Removal of Rainbow Smelt
- ❖ The Influence of Windthrow and Lakeshore Development on Fish Communities in Northern Wisconsin
- ❖ Lake Metabolism
- ❖ Habitat Use Patterns of Elk
- ❖ Complex interactions of riparian land, people and lakes
- ❖ Relation of lake management to property value
- ❖ Survey of native plants and invasive species
- ❖ Hydrologic and biogeochemical fluxes in lake water mosaics
- ❖ Hydrologic responses to logging and land use
- ❖ Biogeochemistry of mercury in northern Wisconsin lakes
- ❖ Control and compensation: strategies for managing wolf populations
- ❖ North Temperate Lakes Long-Term Ecological Research (LTER)
- ❖ North Temperate Lakes LTER Microbial Observatory
- ❖ Northern Highlands Lake District Assessment

2. MISSISSIPPI RIVER

- ❖ Changes in the Upper Mississippi River system over time
- ❖ Flooding and environmental change in the Upper Mississippi Valley
- ❖ Paleoflow and transport in the fractured carbonate rocks
- ❖ Responses of river and stream systems to changes in runoff

3. DANE COUNTY

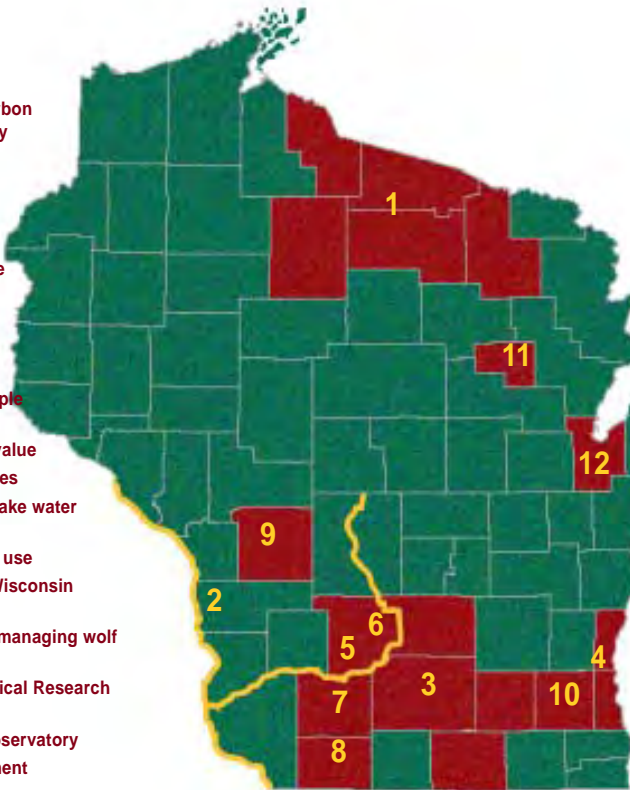
- ❖ Health and Well-Being of African Immigrant Children and Their Families
- ❖ Mobile speech and hearing testing clinic pilot
- ❖ Impact of wetland drainage on hydrology
- ❖ Pro bono speech, hearing, and language screening and services for Head Start

4. SOUTHEASTERN WISCONSIN

- ❖ Jobs With A Future
- ❖ Milwaukee Jobs Initiative
- ❖ Public Child Welfare Training Program
- ❖ Coastal erosion in Ozaukee County

5. SAUK COUNTY

- ❖ Environmental impact of dam removal
- ❖ Groundwater contamination, Baraboo Munitions Plant



6. WISCONSIN RIVER/BOULDER CREEK

- ❖ Algal and Macroinvertebrate Responses to Removal of a Small Dam
- ❖ Denitrification of Soils of the Wisconsin River Floodplain
- ❖ Ecological Analysis and Conservation Implications of Landscape Change in the Wisconsin River Floodplain
- ❖ Spatial and temporal patterns of water chemistry in the Lower Wisconsin River

7. IOWA COUNTY

- ❖ Update of 1963 Iowa County soil survey

8. LAFAYETTE COUNTY

- ❖ Effects of riparian and streambank restoration activities on water quality

9. MONROE COUNTY

- ❖ Biodegradation of gasoline groundwater contaminants

10. WAUKESHA COUNTY

- ❖ Spatial Patterns of Prime Farmland Conversion

11. MENOMINEE COUNTY

- ❖ Menominee language preservation & teaching tools

12. BROWN COUNTY

- ❖ Avian use of coastal wetlands north of Green Bay

STATEWIDE SERVICES BASED IN MADISON

- ❖ State Cartographer
- ❖ State Climatology Office
- ❖ State Herbarium and specimen repository
- ❖ State Meteorologist

ONGOING STATEWIDE PROJECTS

- ❖ Badger Poll
- ❖ Child Support Demonstration Evaluation
- ❖ Class of 1957 longitudinal study
- ❖ German dialects project
- ❖ The German Experience with the Land in Wisconsin
- ❖ Housing Wisconsin: A Guide to Preparing the Housing Element of a Local Comprehensive Plan
- ❖ Invasive species monitoring program
- ❖ Life Course Impacts of Parenting a Child With a Disability
- ❖ Management of Public Information Related to Chronic Wasting Disease
- ❖ A Model Ordinance for Traditional Neighborhood Development
- ❖ On-line System for Identifying Wisconsin Fishes
- ❖ Racial Disparities in Criminal Justice
- ❖ Regional Variation of Breast Cancer Rates in Wisconsin
- ❖ Summer Music Clinic
- ❖ Teachers of Local Culture organization and resource center
- ❖ Twins and Autism
- ❖ "The Vanishing Present: Ecological Change in Wisconsin" book project
- ❖ Universe In The Parks
- ❖ Volunteer Invasive Plant Species Monitoring Volunteer Training
- ❖ Well-Being of Women Leaving Welfare in Wisconsin
- ❖ Welfare Reform in Wisconsin
- ❖ Wisconsin Adoption Project
- ❖ Wisconsin Charter Schools Study
- ❖ Wisconsin Family Care Initiative Evaluation
- ❖ Wisconsin Food Security Project
- ❖ Wisconsin International Adoption Project
- ❖ Wisconsin Job Watch
- ❖ Wisconsin Twin Project
- ❖ Wisconsin Women in Government Seminar
- ❖ Wisconsin Works Child Support Evaluation
- ❖ Wisconsin Youth Symphony Orchestra
- ❖ World Cinema Day
- ❖ World Languages Day

PARTNERSHIPS WITH WISCONSIN GOVERNMENT AGENCIES

CITY OF MADISON
 DANE COUNTY CULTURAL AFFAIRS COMMISSION
 GREAT LAKES FISHERY COMMISSION
 LEGISLATIVE COUNCIL
 MADISON AREA TECHNICAL COLLEGE
 UNIVERSITY OF WISCONSIN - PLATTEVILLE
 UNIVERSITY OF WISCONSIN-WHITEWATER
 WI DEPT OF HEALTH & FAMILY SERVICES
 WISCONSIN ARTS BOARD
 WISCONSIN DEPT OF ADMINISTRATION
 WISCONSIN DEPT OF NATURAL RESOURCES
 WISCONSIN DEPT OF PUBLIC INSTRUCTION
 WISCONSIN DEPT OF REVENUE

WISCONSIN DEPT OF TRANSPORTATION
 WISCONSIN DEPT OF VETERAN AFFAIRS
 WISCONSIN DEPT OF WORKFORCE DEVELOPMENT
 WISCONSIN HISTORICAL SOCIETY
 WISCONSIN HUMANITIES COUNCIL
 WISCONSIN REGIONAL TRAINING PARTNERSHIP
 WISCONSIN SPACE GRANT CONSORTIUM
 WISCONSIN STATE LEGISLATURE
 WISCONSIN WOMEN'S HEALTH FOUNDATION

PARTNERSHIPS WITH WISCONSIN CORPORATIONS, FOUNDATIONS, AND COMMUNITY ORGANIZATIONS INCLUDE

ALLIANT UTILITIES
 BRADLEY (LYNDE AND HARRY) FOUNDATION
 KOHLER FOUNDATION

MADISON AREA COMMUNITY SUPPORTED AGRICULTURE
 MADISON COMMUNITY FOUNDATION
 MADISON SYMPHONY ORCHESTRA
 MAKING CONNECTIONS MILWAUKEE
 MEDICAL COLLEGE OF WISCONSIN
 MILWAUKEE PRESS CLUB
 PLEASANT ROWLAND FOUNDATION
 RIVER ALLIANCE OF WISCONSIN
 WISCONSIN COMMUNITY FUND, INC
 WISCONSIN WOMEN'S HEALTH FOUNDATION
 WORKFORCE DEVELOPMENT BOARD OF SOUTH CENTRAL WI
 WORKING PARTNERSHIPS, USA
 ZOOLOGICAL SOCIETY OF MILWAUKEE

Taking advantage of one of the first mild days of early spring, professor Jim Donnelly's history class is seen outdoors on Bascom Hill discussing Shamanism and spirit possessions. The seminar is normally held in the less than airy confines of the Mosse Humanities Building. "We know we're setting a precedent down here today and we're enjoying it," says Donnelly.



Education

The College of Letters and Science is central to education at the University of Wisconsin-Madison, serving students in its undergraduate and graduate degree programs and providing foundation courses for students in the professional schools and colleges.

Letters & Science also is a center of graduate education at UW-Madison, accounting for 35.8% of all masters and 50.2% of all doctoral-level students enrolled in 2004-2005.

Rankings released in 2005 by *US News and World Report* confirmed that many Letters & Science PhD programs rank among the best in the world. The high rankings are reflected in the number of individual faculty who were honored for their research and instructional excellence in 2004-2005 (see "Honors," page 13). Departmental quality also is reflected in national awards, such as the 2004 Award for Innovation in Graduate Education in Psychology, presented to the Department of Psychology by the American Psychology Association's Board of Educational Affairs and the Council of Graduate Departments of Psychology. The efficacy and impact of Letters & Science graduate programs also is seen in the growing number of graduate students who are making groundbreaking discoveries.

2004-2005 highlights of Letters & Science academic programs include:

- ❖ An intensive review and reconfiguration of Letters & Science Student Academic Affairs (SAA) to realize organizational and administrative efficiencies, improve services to students in Letters & Science and other UW-Madison students who use SAA services, and to enhance collegiality and working relations across SAA groups. This process began in early 2005 and was facilitated by an organizational consultant. In May, Dean Sandefur announced changes in SAA effective June 1, 2005.
- ❖ Creation of the Letters & Science Office of Undergraduate Scholarships within Letters & Science Student Academic Affairs in response to the recommendations of a May 2004 committee report to Dean Phillip R. Certain. That committee recommended creation of a central office to give greater visibility and student access to college-wide scholarship opportunities within Letters & Science and to improve mechanisms for awarding and administering scholarship resources.
- ❖ Letters & Science Faculty Senate approval of changes to L&S undergraduate degree requirements. The Letters & Science Curriculum Committee recommended the changes after a four-year project to conduct the first review of the college's degree requirements in over thirty years. The recommended changes are intended to reduce confusion in implementing the curriculum and to better align degree requirements with the values implicit in liberal arts and science education.

Instructional Expenditures 2003-2004

UW-Madison – \$ 375,959,284

Letters & Science – \$ 135,453,051 (36%)

Letters & Science Academic Units

39 departments

5 professional schools

22 interdisciplinary centers & programs with educational missions

Letters & Science Students, Semester I 2004-2005

Undergraduate – 17,366

Graduate – 4,008

Master's – 1,263

PhD – 2,709

TOTAL – 21,374

Credit Hours Taught in 2003-2004 (% of UW-Madison Credit Hours)

Undergraduate 555,177

Fresh-Sophomore 250,746 (86.3%)

Junior-Senior 304,431 (62.8%)

Graduate 58,799

Masters 23,004

Doctoral 35,795

Professional 1,063

TOTAL 623,209 (62.4%)

Degrees Granted in 2003-2004

Bachelor's – 3,449

Master's – 735

PhD – 290

Majors and Certificates Offered by L&S

91 Majors

3 Capstone Certificates

30 Area Study Mini Major Certificates

U.S. NEWS 2005 RANKINGS OF GRADUATE PROGRAMS

LETTERS & SCIENCE PHD PROGRAMS	2005 SCORE*	2005 RANK	TIED WITH
Economics	4.2	11	Columbia, UCLA, Michigan-Ann Arbor
Public Finance		7	
Econometrics		10	
International Economics		7	
English	4.1	16	Rutgers, UC-Irvine
Gender and Literature		7	Columbia
History	4.4	11	Cornell
Modern U.S.		7	University of Pennsylvania
Women's History		1	
Latin American		2	Yale
African History		2	
Cultural History		7	Rutgers
European History		10	Johns Hopkins
Political Science	3.9	16	Washington University, St. Louis
Psychology	4.2	9	Carnegie Mellon, Harvard (Human Development)
Experimental Psychology		9	Princeton, UC-Berkeley, U of Penn
Behavioral Neuroscience			Johns Hopkins, Stanford, UC-Berkeley
<i>(note: social psychology is listed under sociology by US News)</i>			
Sociology	4.9	1	I
Social Stratification		1	
Social Psychology		5	University of Arizona
Economic Sociology		3	Cornell
Sex and Gender		3	
Sociology of Population		1	

* (5=outstanding/strong; scores unavailable for subfields)

- ❖ Completion of a review and recommended changes to the list of courses that may be used to satisfy the UW-Madison ethnic studies requirement in keeping with the recommendations of the Ethnic Studies Requirement Review Committee. Those revisions were approved by the UW-Madison Faculty Senate in May 2005.

Areas of focus for 2005-2006 include:

- Complete the search for the Associate Dean of Letters & Science Student Academic Affairs.
- Develop and implement a strategy to increase Letters & Science Student Academic Affairs identity and visibility among audiences on and off campus.
- Develop and implement a strategy to improve community between Letters & Science Student Academic Affairs and colleagues with Letters & Science and across campus.
- Develop and implement a comprehensive system for advertising, awarding, and administering college-wide scholarships.

Ethnic Studies Programs

- ❖ Department of Afro American Studies
- ❖ American Indian Studies Program
- ❖ Asian American Studies Program
- ❖ Chicano Studies Program

Letters & Science Courses That Meet the Ethnic Studies Requirement: 297

Letters & Science Courses as a % of all UW-Madison Ethnic Studies Courses: 93%

Letters & Science Learning Communities

- ❖ Bradley Learning Community
- ❖ Chadbourne Residential College
- ❖ International Learning Community
- ❖ Learning Communities in the Sciences

Pathways to Excellence Programs & Services

- ❖ African American Student Academic Services
- ❖ American Indian Student Academic Services
- ❖ Bradley Learning Community
- ❖ Chadbourne Residential College
- ❖ Chicano/a Student Academic Services
- ❖ Letters and Science Honors Program
- ❖ Letters & Science Scholarships
- ❖ Pathways Scholars Program
- ❖ Southeast Asian American Student Academic Services
- ❖ Summer Collegiate Experience
- ❖ Undergraduate Research Scholars
- ❖ Writing Fellows Program

Changes to Letters & Science Undergraduate Degree Requirements beginning in 2007:

- ❖ Change requirements to reflect curricular goals.
- ❖ Align and Streamline Math and General Education Requirements
- ❖ Eliminate the "Ten-Credit Rule" that prevented students from earning more than ten credits of breadth in a single department.
- ❖ Eliminate the "Eighty-Credit Rule" that required students to complete at least eighty credits outside of any one department.
- ❖ Modify the Twenty-Credit Rule" to allow students greater flexibility in taking courses outside of Letters & Science.
- ❖ Clarify residency requirements.

Faculty and students set of on the Santa Fe Trail, a traveling classroom that explores the history and culture of the American West. Photo by Jeff Miller, University Communications.



Human Resources

FTE Letters & Science Employees, Fall 2004 (as % of all UW-Madison)

Faculty	816.5 (39.5%)
Instructional Academic Staff	250.5 (17.6%)
Other Academic Staff	476.8 (10.7%)
Classified Staff	371.8 (7.5%)
Graduate Assistants	956.8 (39.1%)
TOTAL	2970.0 (18.2%)

SOURCE: Data Digest 2004-2005, p. 82-283

New Faculty Beginning 2005-2006: 42

Caucasian:	33
African American	1
Asian	4
Hispanic/Latino	4
Female:	18
Male:	23

Outside Offers

Outside Offers to L&S Faculty, 2002-03:	29
Outside Offers to L&S Faculty, 2003-04:	46
Outside Offers to L&S Faculty: 2004-05:	44
(as of June 30, 2005)	

Retention Offers

Successful Retention Offers, 2002-03:	21
Successful Retention Offers, 2003-04:	18
Retention offers, 2004-2005:	33
Successful Retention Offers, 2004-05:	23
Offer made, answer pending, 2004-2005:	2
Retention offers in progress, 2004-05:	4

Successful Counter Offers to Outside Offers From:

City University New York
Ohio State University
Oxford University
Pennsylvania State University
Temple University
University of Aberdeen
University of Chicago
University of Michigan
University of North Carolina
University of Ottawa
University of Rochester
University of Illinois
University of Maryland
University of Southern California
University of Texas - Austin

Retirements

2004-2005: 25

Resignations

2004-2005: 29

Department chairs, 2004-2005

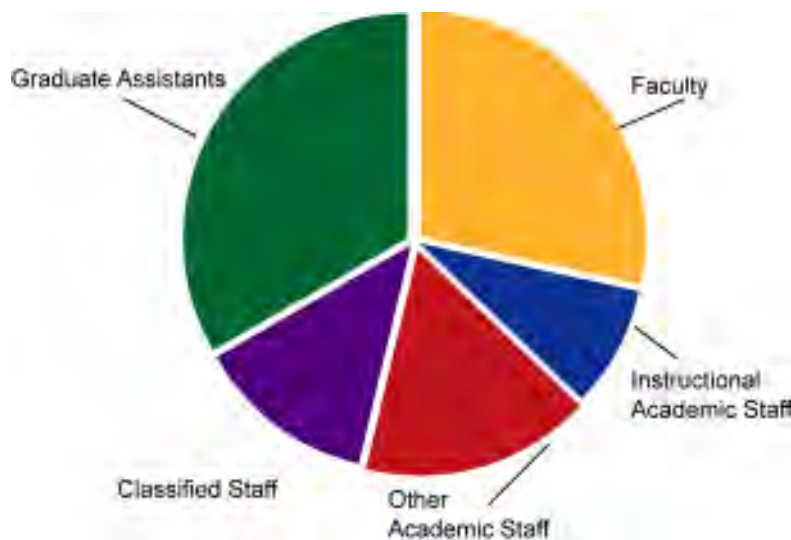
6 women and 1 African American were elected chairs of 7 of Letters & Science's 11 natural science and mathematics departments

Letters & Science Faculty & Staff Advisory Committees

Academic Planning Committee
Committee on Academic Staff Issues
Classified Staff Issues Committee
Letters & Science Faculty Senate

The College of Letters and Science is a complex community of more than twenty thousand people engaged in education, research, and outreach. The college's faculty and staff embody the talent, knowledge, and skills that make achievement possible at all levels. Its students represent the future generations who will grapple with society's problems, create new forms of art and literature, make the exhilarating discoveries of tomorrow, and one day mentor and train the next generation of thinkers and doers.

LETTERS & SCIENCE EMPLOYEES, FALL 2004



Letters and Science is challenged to nurture and develop its human resources, to recruit and retain community members who will help each other and the college to reach their full potential. This entails creating an environment that entices people to stay, where contributions at all levels are valued, and where the members of the community reflect the ethnic and cultural diversity of larger society.

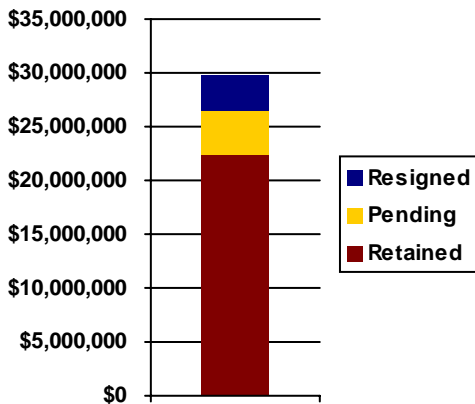
Letters & Science Faculty, Undergraduate Enrollments, and Credit Hours Taught, 1993-94 through 2004-2005

Year	Total FTEs, L&S Faculty Tenure Roster ¹	Undergraduate Enrollment Letters & Science	Undergraduate Enrollment UW-Madison	Undergraduate Credit Hours Taught by L&S	All Credit Hours Taught by L&S
1993-94	954.88	15,214	26,638	501,191	582,563
1994-95	933.8	14,962	26,207	494,412	573,046
1995-96	898.11	15,175	26,361	496,001	571,384
1996-97	862.09	15,781	26,910	517,959	589,560
1997-98	848.01	16,378	27,533	531,744	600,126
1998-99	840.11	16,699	27,808	540,704	605,700
1999-00	820.62	17,127	28,270	538,606	601,842
2000-01	865.86	17,179	28,476	547,109	612,215
2001-02	896.46	17,520	28,788	558,210	625,280
2002-03	901.3	17,495	28,677	558,012	624,024
2003-04	905.5	17,528	28,583	555,177	623,209
2004-05	905.05	17,366	28,217	Not Yet Available	Not Yet Available

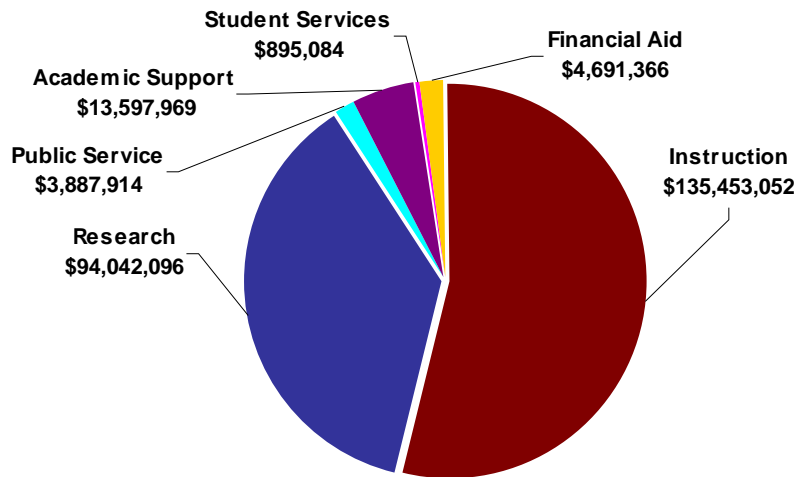
¹ Includes faculty whose salaries are paid through grant, gift, and other non-GPR funds.

SOURCES: 1998-99 Data Digest, p. 2, 70; 2003-2004 Data Digest, p. 2, 79, 20004-2005 Data Digest, p. 2, 73,82

EXTERNAL AWARDS DEC. 1999 - JUNE 2005
TO FACULTY WHO RECEIVED OUTSIDE OFFERS IN
2004-2005
(with status of outside offer)



Letters & Science Expenditures, 2003-2004



Faculty Recruitment and Retention

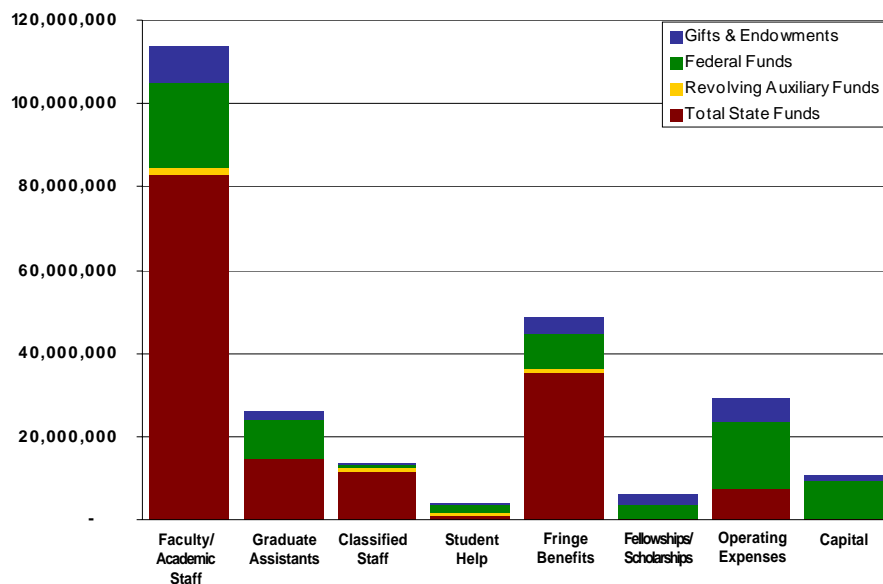
Faculty are central to the Letters & Science mission. As researchers and scholars, they are the foundations of our institutional prestige and reputation for academic excellence. As colleagues, faculty help to build the intellectual community that attracts other scholars and graduate students to UW-Madison. And, as educators, faculty are essential guarantors that UW-Madison students are receiving educations that will meet the challenges of the future.

Each faculty member represents an institutional investment in the future. That investment comes in the form of start-up funds for new laboratories and computer equipment, small grants for research support and curricular development, awards for excellence in teaching, and infrastructure resources for library acquisitions and computing facilities. There is a financial return on that investment when faculty compete successfully for

research grants, assist in securing gifts that support the college's mission, and/or create spin-off companies that help build Wisconsin's economy. For example, the faculty targeted by outside offers in 2004-2005 were PIs on almost \$30 million in external awards between December 1999 and June 2005. Finally, there is a larger institutional benefit that accumulates when faculty are recognized at the state, national, and international levels for their contributions to knowledge and the education of the next generations of social leaders (see section on Honors).

Letters & Science focused on faculty retention during 2004-2005. Although the number of outside offers to college faculty increased, the rise was not as dramatic as that experienced in the preceding academic year. In addition, efforts to retain faculty through pre-emptive offers and other creative actions were very

**LETTERS & SCIENCE EXPENDITURES
BY TYPE AND FUNDING SOURCE
2003-2004**



successful in 2004-2005, with 23 retention offers accepted, 2 answers pending, and 4 offers in progress at the time of this report.

Letters & Science also has experienced a very successful year in faculty recruitment, with 33 new faculty joining the college in 2005-2006. New faculty include three hires at the full professor and one hire at the associate professor levels; four of the new faculty are members of interdisciplinary clusters.

In an age of declining state support for higher education, our ability to provide the facilities and resources to keep UW-Madison an attractive environment for scholars, or to make successful retention offers, rests increasingly on resources established through gifts to the college. In 2004-2005, Letters & Science underwent a process to articulate its development priorities. Resources to enhance faculty research and retention emerged as major areas of need and development activities have been realigned to focus more intensely in this area.

Classified and Academic Staff

Members of the classified and academic staff are the infrastructure that support the Letters & Science education, research, and outreach missions. Members of these two groups are central to research, grant writing and development, teaching, advising and student services, fiscal management, academic administration, information technology, outreach and a host of other functions across the college. They often are on the front lines of interaction with students, faculty, and the public; their roles have taken on new significance as college departments and programs increasingly engage in cross-campus and interdisciplinary initiatives.

In 2004-2005, Letters & Science continued its programs to recognize the contributions of classified and academic staff and to give them a voice in college affairs. The Classified Staff Issues Committee and the Committee on Academic Staff Issues met regularly with Dean Sandefur to discuss issues affecting staff in the college. For the first time this year, the dean hosted a joint luncheon for members of the two committees.

The college also initiated a study of climate and working relations between classified and academic staff as part of the larger review of structure and service delivery in Letters & Science Student Academic Affairs. That process

Students of Color Enrolled in Letters & Science, 2004-2005

(% of Minority Students at UW-Madison)

Undergraduate: 2,027 (67%)

Graduate: 301 (40.3%)

Ethnic Studies Programs in Letters & Science

- ❖ Department of Afro American Studies
- ❖ American Indian Studies Program
- ❖ Asian American Studies Program
- ❖ Chican@ and Latin@ Studies Program

Student Academic Affairs Programs That Directly Support Diversity Initiatives

- ❖ Academic Advancement Program
- ❖ African American Student Academic Services
- ❖ American Indian Student Academic Services
- ❖ Chicano/a Student Academic Services
- ❖ First-Year Interest Groups
- ❖ Letters & Science Scholarships
- ❖ Pathways Scholars Program
- ❖ Southeast Asian American Student Academic Services
- ❖ Summer Collegiate Experience
- ❖ Undergraduate Research Scholars

2004-2005 Letters & Science Academic Staff Excellence Awards

Early Career Award

Patrick Barrett, administrative program specialist in the Havens Center

Emily B. Hall, associate faculty associate in the Writing Center

Mid-Career Award

Nelly Halzen, senior lecturer in the Department of French and Italian

Matthew Sanders, assistant academic program director in the Department of Chemistry

Judith S. Craig Distinguished Service Award

Jeffrey F. Petersen, associate director of the Center for Demography and Ecology

2004-2005 Letters & Science Classified Staff Excellence Awards

Phyllis Fass, academic department supervisor, Department of Astronomy

Arnold Gudel, shipping and mailing clerk 2, Department of Spanish and Portuguese

Gail Johnson, program assistant 4, School of Music

Anita Lightfoot, program assistant 4, Center for Jewish Studies

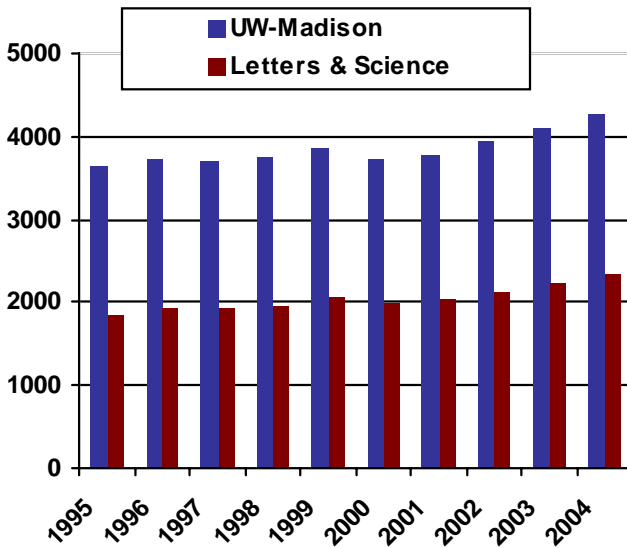
Sue Martin-Zernicke, program assistant 2, Department of Chemistry.

2004-2005 Letters & Science Academic Advising Awards

Neil Richardson, professor of political science and director of the Letters & Science Advising Center

Christine Schindler, undergraduate advisor for the International Studies Major

STUDENTS OF COLOR AT UW-MADISON, 1995 - 2004



included individual interviews with all Student Academic Affairs Staff and listening sessions conducted within and across SAA units. As a result, the college was able to announce several innovations designed to enhance communication and collaboration across its largest student services unit.

Undergraduate Education

Letters and Science enrolls the largest single concentration of students of color at UW-Madison and consequently holds a special responsibility in efforts to recruit, retain, and graduate a diverse student body.

The college is home to several units designed to enhance recruitment and retention of students of color and to help all students develop cultural competence for a multicultural society. These units range from academic services programs that target specific heritage groups, to research and college transition programs designed to ensure that students of color and first-generation college students have access to advanced academic opportunities and academic recognition from the earliest points in their university careers. Although the programs are housed in Letters & Science, they are open to any UW-Madison students and program staff often work closely with students in schools and colleges outside of Letters & Science.

Two 2004-2005 Letters & Science initiatives are likely to contribute to the future growth and vibrancy of its programs that support diversity in its academic programs. The initiative to create a more student-focused, visible, and easy to understand Student Academic Affairs unit will help its outstanding staff to provide better services and to develop more collaborative initiatives between programs.

Creation of a Letters & Science Office for Scholarships and Grants will make Letters & Science scholarship resources more accessible to undergraduates who are economically challenged to stay in school. In addition, scholarships and undergraduate programs - including those in support of diversity initiatives - emerged as another significant priority during the 2004-2005 process to articulate

Letters & Science development priorities. Development activities have been realigned to focus more intensely on undergraduate scholarships and programs as well.

Areas of focus for 2005-2006 include:

- ☞ Celebrate of the 25th anniversary of the Academic Advancement Program and recognition of its contributions to campus diversity and to students of color at UW-Madison.
- ☞ Develop strategies to accommodate anticipated significant growth in the number of PEOPLE program students who are graduating from high school and preparing to participate in the Summer Collegiate Experience program.
- ☞ Build communities among students of color in Letters & Science graduate programs
- ☞ Administer Letters & Science Advanced Opportunity Fellowship block grant.
- ☞ Explore ways that student-focused delivery might be shaped to address the needs of students of color and first-generation college students at UW-Madison.
- ☞ Improve data collection and assessment of SAA student services units.
- ☞ Continue to emphase resources for faculty research, faculty and staff recruitment and retention, and for undergraduate scholarships and programs in Letters & Science development activities.

Student pianists play a duet as dancers perform Erik Satie's "Parade," a brief avant-garde ballet that premiered in Paris in 1917, at the Meriter Retirement Center's Grand Hall in Madison. Started by Catherine Kautsky, a professor of piano in the School of Music, the piano outreach program includes community performances and collaborations with students in dance, theater and English. The program is funded by an Evjue Foundation grant.



Outreach

Letters & Science faculty and staff uphold the Wisconsin Idea tradition through programs and services devised to share college resources with the people of Wisconsin and beyond. The college also partners with the Wisconsin Alumni Association and the University Speakers Bureau to send faculty and staff speakers to alumni and civic organizations throughout Wisconsin and the Upper Midwest.

Letters and Science teaching and research programs encompass resources and facilities that extend far beyond the classroom and, in some cases, beyond the campus. These resources are open to the public and have become important elements of UW-Madison's community outreach and K-12 enrichment programs. The college also integrates the Wisconsin Idea into its educational programs, offering innovative classes through distance education, providing service learning opportunities for its students and alumni, and exploring new ways of offering courses for credit to nontraditional audiences.

2004-2005 Highlights Include:

- ❖ The Wisconsin Advertising Project, created and directed by political science Professor Ken Goldstein, served as the premier media information resource for print and broadcast media at the local, state, national and international levels during the 2004 presidential elections.
- ❖ The Vertical Integration of Research and Education (**VIGRE**) program, or the led by mathematics Professors Alejandro Adem, Paul Milewski and Ken Ono. With a five-year, \$2.55 million grant from the National Science Foundation, this group, along with others on campus, plan to develop an array of activities that encourage more students to take a closer look at math - both as a foundation for other research and as a profession. The overarching goal of the VIGRE program is to develop an integrated approach to training mathematicians. It not only seeks to integrate academic activities, such as research, teaching and outreach, but also to integrate faculty and students at all levels by:

Enhancing the existing "Wisconsin Mathematics, Engineering and Science Talent Search," where the UW-Madison Math Department offers full tuition scholarships to top high school math achievers.

Developing "Collaborative Undergraduate Research Labs," where students learn through experiments and hands-on activities.

Offering "Research Experiences for Undergraduates," a nationally competitive program that provides college students from all over the country with the opportunity to get involved in research and mathematics at UW-Madison.

Film and Theatre Resources

- ❖ Cinematheque
- ❖ Class Act
- ❖ University Opera
- ❖ University Theatre
- ❖ Wisconsin Film Festival
- ❖ World Cinema Day

Gardens & Greenhouses

- ❖ Botany Garden and Greenhouse
- ❖ The Wisconsin State Herbarium

Museums

- ❖ Elvehjem Museum of Art
- ❖ Geology Museum
- ❖ Ingersoll (Physics) Museum and Exploratorium
- ❖ Zoological Museum

Observatories and Astronomy Resources

- ❖ SALT Observatory
- ❖ WIYN Observatory
- ❖ Pine Bluff Observatory
- ❖ Scopes in Schools Program
- ❖ Washburn Observatory
- ❖ UW Space Place
- ❖ Universe in the Park outreach program

Music Performance Groups

- ❖ Jazz Big Band
- ❖ University of Wisconsin Band
- ❖ University Madrigals
- ❖ Javanese Gamelan Ensemble
- ❖ Pro Arte Quartet
- ❖ University Opera
- ❖ University of Wisconsin Symphony Orchestra
- ❖ Wingra Woodwind Quintet
- ❖ Wisconsin Brass Quintet

Science Resources

- ❖ Christmas in the Lab of Shakhshiri
- ❖ Institute for Chemical Education
- ❖ Space Place
- ❖ Universe in the Parks
- ❖ Wisconsin Institute for Science Literacy
- ❖ Wonders of Physics

Examples of Government/Public Policy Resources

LaFollette School of Public Affairs

- ❖ Conference: Taxing and Spending Limits in Wisconsin
- ❖ New Legislators Training (part of a partnership with the Wisconsin Joint Legislative Council)
- ❖ Wisconsin Women in Government mid-career management and leadership development program (5th year)
- ❖ Bowhay Institute for Legislative Leadership Development (10th year)
- ❖ Annual public seminar series on selected topics for state and local government officials, and the public

State Cartographer

- ❖ Handbooks:
 - Wisconsin Coordinate Systems
 - Introduction to Local Land Information Systems for Wisconsin's Future
 - Implementation of Land Information Systems in Local Government - Steps Towards Land Records Modernization in Wisconsin
- ❖ Wisconsin Coordinate System Task Force
- ❖ *Wisconsin Mapping Bulletin*

Providing graduate student fellowships and postdoctoral positions to develop scholarship, as well as to provide teaching opportunities. The program also will establish internships for graduate students in industry or at national labs research labs.

Increasing the number of women and minority students in mathematics.

The Wisconsin Connection

In addition to examples cited in the section on Research (p. 5-8), Letters & Science students, faculty, and staff contributed to Wisconsin's educational, social, and cultural life in 2004-2005, through:

- ❖ Catherine Kautsky, a professor of piano in the School of Music, founded the Piano Outreach Program which includes community performances and collaborations with students in dance, theater and English. The program is funded by an Evjue Foundation grant.
- ❖ Dustin Cowell's Arabic language and cultural training for Wisconsin National Guard troops about to deploy to Iraq.
- ❖ Mentoring 2005 summer research interns from Madison's four public high schools. Mentors include some of Letters & Sciences most prominent researchers: Steve Ackerman, Atmospheric & Oceanic Science (3 interns); Robert West/Galina Bikzahnova, Chemistry; Tony Ives, Zoology/Entomology; Bob Hamers, Chemistry; Morton Gernsbacher, Psychology.
- ❖ Partnership between the Madison Repertory Theatre, Letters and Science, and its Departments of Physics, Theatre and Drama, Philosophy, History of Science, and the Science and Technology Studies Program to produce the play *Copenhagen*. The project inaugurated the World Year of Physics in 2005 and the centennial of Einstein's "Miraculous Year," in which he published several seminal papers that revolutionized the study of the physical world.
- ❖ The second annual Geographic Information Systems Day Expo in November. The expo is organized by the Department of Geography to promote awareness of Geographic Information Systems (GIS) for research, planning, management, education and decision-making in an array of application areas, and to showcase career opportunities in the field and educational and training opportunities on campus. In 2003, more than 250 students, faculty and members of the greater community attended the expo and over 30 government agencies, academic programs, businesses and nonprofit organizations that use GIS offered presentations, exhibitor booths, hands-on demonstrations and maps.
- ❖ Classical music performances in rural Wisconsin K-12 schools organized by Collins Fellows in the School of Music and funded through a Baldwin grant. This was the only Baldwin grant project created and directed entirely by students. Each visit was specially tailored to the particular school and its community, but most included classroom instruction, one-on-one lessons, coaching of the school's musical ensembles, a school-wide presentation, and a free public concert in the evening featuring various musical genres. Schools visited included: Adams-Friendship Middle School, Hillsboro High School, Norwalk-Ontario-Wilton High School, and Royall High School.

Areas of focus for 2005-2006 include:

- Finalize the search for distance education coordinator to continue progress in offering credit courses using the internet and other technologies.
- Develop a long-term partnership between the Center for Humanities and the Madison Repertory Theatre.
- Inaugurate the new Space Place facility on Park Street.
- Carry out renovation of the Washburn Observatory to enhance outreach and scholarly activities.

2004-2005 FUNDING FOR NEW OUTREACH PROJECTS

- ❖ **Vertical Integration of Research and Education (VIGRE)**
Led by mathematics Professors Alejandro Adem, Paul Milewski and Ken Ono and funded with a five-year \$2.55 million grant from the National Science Foundation. The overarching goal of the VIGRE program is to develop an integrated approach to training mathematicians

Letters & Science Projects Awarded Baldwin Grants

- ❖ **Hmong Literacy, Language and Jobs Project**
A collaboration among university, community and state entities to extend UW-Madison's resources among Dane County's Hmong community. The program will focus on workplace literacy-skills training, skill development and culture acclimation. Project leaders: Donald A. Schutt, director, Office of Human Resources Development; Marlys A. Macken, professor, College of Letters and Science
- ❖ **Western Wisconsin Cultural Initiative**
This program will bring arts programming and supplemental education to under-funded school district music programs in western Wisconsin via hands-on work with K-12 students and evening community concerts. Project leaders: Todd James Schendel, Collins Fellow, College of Letters and Science/Graduate School; Amy S. Schendel, Collins Fellow, College of Letters and Science/Graduate School.

Evjue Foundation Grants in 2005

- ❖ Wisconsin - South Africa Partnership in Science Teacher Training - \$78,000 to support the UW-Madison's major international science project involving the Southern African Large Telescope construction in Sutherland, South Africa.
- ❖ Afro-American studies department - \$5,950 to help with a two-day event that will bring graduate and undergraduate students together with cultural historian Jeff Chang to examine black music and American cultural history.
- ❖ Department of Astronomy - \$7,000 to co-sponsor the Washburn Observatory's "Starry Transit" exhibition of artwork by Wisconsin artist Martha Glowacki.
- ❖ Nordic Institute for Summer Scandinavian Studies - \$10,000 to help the UW-Madison host the institute on the 100th anniversary of Norway becoming an independent nation and the 200th birthday of Denmark's Hans Christian Andersen.
- ❖ Arts Institute - \$25,000 to help support the 2006 Wisconsin Film Festival by assisting in maintaining low ticket prices so that the festival, scheduled for March 30-April 2, can be affordable to the maximum number of people.
- ❖ Madison Early Music Festival - \$9,940 for the collaborative effort between the School of Music and department of liberal studies and arts to sponsor the sixth Madison Early Music Festival.
- ❖ School of Social Work - \$7,500 to support the school's efforts to recruit and retain students of color.
- ❖ Center for the Humanities - \$10,000 in continued support for "Humanities Exposed/Humanities External Research," to make resources and training of graduate students directly available to middle and high school minority students and community members.
- ❖ Center for the Study of the American Constitution - \$10,000 for John Kaminski's ongoing effort to inform the public about the origins of the Constitution and the Bill of Rights.
- ❖ UW Writing Center - \$17,000 to continue and expand the community writing assistance project at the South Madison and Lakeview branches of the Madison Public Library.
- ❖ School of Music - \$16,775 for the Robert Fountain Legacy Project, aimed at uniting the community touched by Fountain's work by producing and disseminating unique historic recordings capturing his mastery.
- ❖ School of Music - \$7,500 toward the costs of a new CD recording of the school's French music for the bassoon as performed by Professor Marc Vallon and his colleagues in the school.
- ❖ Bach Dancing & Dynamite Society - \$5,000 to help underwrite a three-week annual summer chamber music festival which serves as a community outreach program for both young and old.



Internationalization

Letters and Science provides the base for much of UW-Madison's international programming. As home to the campus's language and literature departments and to many international specialists in the arts and humanities, social sciences, and natural sciences, Letters and Science has built an unparalleled set of resources for research and teaching world languages, literatures, cultures, and societies.

In several cases, faculty and instructional programs devoted to a particular language or world region rank among fewer than a handful of such formal research and instructional programs in the world. Letters and Science's continued investment in faculty and programs with unique international education capabilities is a significant factor in attracting federal and private grants to UW-Madison. The breadth of those resources also has contributed to this university's position as home to the largest number of Department of Education Title VI National Resource Centers at an American university.

In 1995, Letters and Science joined with the Office of International Studies and Programs to create the International Institute as a catalyst for international education for this university. In 2004, Letters & Science created The Language Institute to serve as a campus focal point for the college's world language and culture resources

In addition to activities conducted through formal area studies programs, Letters and Science faculty and staff regularly conduct international research and educational activities either individually or in partnership with colleagues in other schools, colleges, and student service units.

College faculty also serve as overseas directors of study abroad programs and advanced research projects each year. In addition to programs devoted to the study of world languages and cultures, the Department of English's Program in English as a Second Language and its Writing Center make it possible for students from all schools and colleges who are not native speakers of English to participate in UW-Madison educational and community life.

UW-Madison Area and International Studies Programs (number of L&S faculty); Department of Education National Resource Centers bolded:

- ❖ **African Studies (44)**
- ❖ **East Asian Studies (43)**
- ❖ **European Studies (205)**
- ❖ German and European Studies (15)
- ❖ **Russia, East Europe and Central Asia (51)**
- ❖ **South Asian Studies (16)**
- ❖ **South East Asian Studies (16)**
- ❖ European Union Center (8)
- ❖ **Latin American, Caribbean And Iberian Studies (59)**
- ❖ Middle East Studies (23)

Other international programs:

- ❖ Global Cultures Program
- ❖ International Studies Major
- ❖ *Maison Francaise*
- ❖ National African Languages Resources Center
- ❖ Professional French Master's Program
- ❖ Center for Pushkin Studies

Language and Culture Departments:

- ❖ African Languages and Literature
- ❖ American Indian Studies Program
- ❖ Anthropology
- ❖ Classics
- ❖ East Asian Languages and Literature
- ❖ English
- ❖ French and Italian
- ❖ German
- ❖ Hebrew and Semitic Studies
- ❖ Languages and Cultures of Asia
- ❖ Linguistics
- ❖ Scandinavian Studies
- ❖ Slavic Languages and Literature
- ❖ Spanish and Portuguese

Number of Languages Taught in L&S: Over 60

Language Conversation Tables Regularly Hosted:

- | | |
|-------------|----------------------|
| ❖ Arabic | ❖ Persian |
| ❖ Chinese | ❖ Polish |
| ❖ Czech | ❖ Portuguese |
| ❖ Dutch | ❖ Russian |
| ❖ Filipino | ❖ Serbo-Croatian |
| ❖ French | ❖ Spanish (3 groups) |
| ❖ German | ❖ Swahili |
| ❖ Japanese | ❖ Swedish |
| ❖ Kazak | ❖ Turkish |
| ❖ Norwegian | |

2004-2005 highlights of Letters & Science international activities include:

- ❖ The inaugural year of the Language Institute.
- ❖ Over 720 Wisconsin students and teachers from 24 high schools throughout Wisconsin participated in World Languages Day.
- ❖ ESL academic staff contributions to enhanced English language training in Korea under a series of grants from the Gyeonggi-do Institute for Foreign Language and the Gyeonggi-do Provincial Office of Education.
- ❖ *Wisconsin Technology Network* featured The Multimedia LessonBuilder, an authoring tool developed by Letters & Science faculty and staff. The software enables language instructors to create interactive lessons incorporating flash-based video and MP3 audio. The software is available at no cost to UW-Madison faculty and staff through Learning Support Services. It is available for educational use outside of the UW-Madison through the College of Letters and Science Licensing Service.
- ❖ The Center for South Asia, with support from the Fulbright-Hays Group Projects Abroad Program, will take 13 Wisconsin K-12 educators to India this summer on a curriculum development mission. "A Passage to India," which runs from June 24 to July 28, will give teacher participants a rich, first-hand and focused experience of India. The trip will enable participants to develop a complex view of the intersections of urban and rural lifestyles, coastal and agricultural economies, multiple religious communities and the traditional and modern landscapes of India.
- ❖ Dustin Cowell, professor of African Languages & Literatures, provided intensive Arabic language and cultural training for Wisconsin National Guard troops about to deploy to Iraq in spring 2005.

Areas of focus for 2005-2006 include:

- Expand the immersion language training program and capabilities.
- Develop on-line language instruction capabilities through a grant to the Language Institute from the Giannini Fund.

Summer Language and Culture Programs

- ❖ Arabic and Persian Immersion Program
- ❖ Intensive Portuguese Institute
- ❖ National African Language Resource Center Summer Institute
- ❖ Scandinavian Summer Institute
- ❖ Southeast Asian Studies Summer Institute
- ❖ South Asia Summer Language Institute
- ❖ Summer Program for Advanced Pedagogy Training
- ❖ Second Language Acquisition Certificate Program for African Language Instructors

Wisconsin High Schools Participating in World Languages Day 2005

- ❖ Brookfield Central High School, Brookfield, WI
- ❖ Columbus High School, Columbus, WI
- ❖ Gibraltar High School, Fish Creek, WI
- ❖ Franklin High School, Franklin, WI
- ❖ Freedom High School, Freedom, WI
- ❖ Southwest High School, Green Bay, WI
- ❖ Hortonville High School, Hortonville, WI
- ❖ Central High School, La Crosse, WI
- ❖ Lodi High School, Lodi, WI
- ❖ East High School, Madison, WI
- ❖ Memorial High School, Madison, WI
- ❖ Malcolm Shabazz High School, Madison, WI
- ❖ La Follette High School, Madison, WI
- ❖ West High School, Madison, WI
- ❖ Lincoln High School, Manitowoc, WI
- ❖ Medford High School, Medford, WI
- ❖ Rufus King International Baccalaureate High School, Milwaukee, WI
- ❖ Neenah High School, Neenah, WI
- ❖ New Lisbon High School, New Lisbon, WI
- ❖ Poynette High School, Poynette, WI
- ❖ Sauk Prairie High School, Prairie du Sac, WI
- ❖ Waunakee High School, Waunakee, WI
- ❖ Waupun High School, Waupun, WI
- ❖ Westby High School, Westby, WI

Examples of New Awards for International Initiatives in Letters & Science, 2004 - 2005

- ❖ \$56,700 to Robert Joynt, professor of physics, from the National Science Foundation for "U.S.-Vietnam Cooperative Research in Computational Materials and Device Physics"
- ❖ \$23,507 to Clark Miller, associate professor of political science and public affairs, for a project on "Constituting Nature and Society in the Global Environment"
- ❖ \$117,234 to Michael Morgan, associate professor of atmospheric and oceanic sciences, from the National Science Foundation for a project entitled "Potential Vorticity Diagnosis of African Easterly Waves and Tropical Cyclones"
- ❖ \$227,519 to Alberto Palloni, professor of sociology, from the National Institutes of Health for International Training in Population Health

Ken Ono, one of seven scholars to receive the National Science Foundation Director's Award in 2005. Photo courtesy of NSF/Peg Skorpinski



Honors

Letters and Science faculty and staff play a significant role in making the College of Letters and Science a special place to work and learn. The following faculty and staff were recognized by their peers nationally and on campus in 2004-2005:

Alumni Awards

- ❖ **Walt Bogdanich** (BA '65, political science), a reporter for *The New York Times* won his second **Pulitzer Prize** for his series on issues affecting train safety in the United States.
- ❖ **Leo Sidran** (BA '99, history and ILS) co-produced and performed in the recording of "Al Otro Lado Del Rio," the first Spanish language song to ever be nominated for and in 2005, the first Spanish language song to win an **Academy Award**. The song, which was recorded in Sidran's Madison studio, was written for *The Motorcycle Diaries*.
- ❖ Wisconsin Public Radio's "To The Best of Our Knowledge" won a **Peabody Award**, the most prestigious award in broadcast journalism. Journalism Professor **Jack Mitchell** was influential in launching the show, and its journalists include: **Jim Fleming** (BA '70, English), host; **Steve Paulson** (MA '83, journalism), interviewer; **Veronica Rueckert** (BM '96, Music: Performance).

National and International Awards

Carl deBoor, emeritus professor of computer sciences and mathematics, received the **National Medal of Science**. The medal, considered the nation's most prestigious science award, was presented during a White House ceremony in March. The medal has been given by the National Science Foundation since 1959. De Boor, a German native who joined the UW faculty in 1972, is an expert on numerical analysis and has written more than 150 papers and books. His most famed work covers spline functions, mathematical expressions dealing with free-form curves and surfaces, a news release says. The results of his research have influenced fields such as computer-aided geometric design, the aviation industry, the automotive business and the filmmaking world. He is the 10th UW-Madison scientist to receive the medal, and the second mathematician.

National Science Foundation Director's Award

Ken Ono, Solle P. and Margaret Manasse Professor of Letters and Science in the Department of Mathematics, was one of seven scholars to receive the

Honors and Recognitions — Letters and Science Faculty and Staff

Mac Arthur "Genius" Award Winners

- ❖ 1985 William Cronon B.A. '76, History and English, Professor of History
- ❖ 1995 Joel Rogers, Professor of Sociology
- ❖ 1999 Laura Kiessling, Associate Professor of Chemistry

Pulitzer Prize Awards

- 1992 Professor Deborah Blum, Professor of Journalism and Mass Communication

National Medal of Science

- 1965 John Bardeen, Physics
- 1967 Harry F. Harlow, Psychology
- 1976 Joseph E. Hirschfelder, Chemistry
- 1977 Verner E. Suomi, Meteorology
- 1990 Stephen C. Kleene, Mathematics and Computer Sciences
- 1991 Folke Skoog, Botany
- 2005 Carl deBoor, Mathematics and Computer Sciences

National Science Foundation

Presidential Early Career Award (PECASE)

- ❖ Pei Cao, Computer Sciences
- ❖ Brenda Dingus, Physics
- ❖ Jonathan Foley, Atmospheric & Oceanic Sciences
- ❖ Jeffrey Hardin, Zoology
- ❖ Laura Kiessling, Chemistry
- ❖ James Larus, Computer Sciences
- ❖ Ken Ono, Mathematics
- ❖ Jennifer Saffran, Psychology

National Academy of Sciences

- ❖ Richard A. Askey, Mathematics (1999)
- ❖ Allan G. Bogue, History (1985)
- ❖ William A. Brock, Economics (1998)
- ❖ Larry Bumpass, Sociology (2001)
- ❖ Steven Carpenter, Zoology (2001)
- ❖ Charles P. Casey, Chemistry (1993)
- ❖ Arthur D. Code, Astronomy
- ❖ Fleming Crim, Chemistry (2001)
- ❖ James F. Crow, Zoology, Genetics, Medical Genetics (1961)
- ❖ Lawrence F. Dahl, Chemistry (1988)
- ❖ Carl deBoor, Mathematics (1997)
- ❖ Arthur Goldberger, Economics (1986)
- ❖ Willy Haerberli, Physics (2002)
- ❖ Robert M. Hauser, Sociology (1984)
- ❖ William A. Kraushaar, Physics (1973)
- ❖ Eldon H. Newcomb, Botany (1988)
- ❖ Paul H. Rabinowitz, Mathematics (1998)
- ❖ Hans Ris, Zoology (1974)
- ❖ Karen Strier (2004)
- ❖ Monica Turner, Zoology (2004)
- ❖ Grace Wahba, Statistics (2000)
- ❖ Howard E. Zimmerman, Chemistry (1980)

National Science Foundation (NSF) Director's Award for Distinguished Teaching Scholars during a ceremony at the National Academy of Sciences.

Order of the Sacred Treasure, Gold Rays with Rosette

The Emperor of Japan selected **Akira Miura**, professor emeritus of East Asian languages and literature, to receive the Order of the Sacred Treasure, Gold Rays with Rosette. The honor recognizes his lifetime promotion of friendship and cultural exchange between the United States and Japan. Miura is a pioneer in Japanese language teaching in the United States. He has played an important part in shaping Japanese language study at UW-Madison for 32 years.

2005 American Academy of Arts and Sciences Fellows

- ❖ **Thomas Kurtz**, the Paul Levy professor of mathematics and statistics
- ❖ **Alberto Palloni**, the H. Edwin Young professor of sociology and international studies

American Philosophical Society

Robert Hauser, professor of sociology, was elected a fellow of the American Philosophical Society.

2005 American Association for the Advancement of Science Fellows

- ❖ **Robert J. Hamers**, professor of chemistry, for his contributions to understanding the chemistry at solid surfaces and interfaces.
- ❖ **Robert L. Jeanne**, professor of entomology and zoology, for his studies of the behavior and ecology of social insects.
- ❖ **Gilbert M. Nathanson**, professor of chemistry, for studies of the microscopic structure and reactivity of liquid surfaces.
- ❖ **Jenny Saffran**, professor of psychology, for her efforts to understand the learning abilities required to master the complexities of language.
- ❖ **Janet Shibley Hyde**, professor of psychology, for her work to understand the psychology of women, human sexuality and gender-role development.

2005 Guggenheim Fellowships

- ❖ **Richard E. Goodkin**, professor of French
- ❖ **Theresa M. Kelley**, Marjorie and Lorin Tiefenthaler Professor of English
- ❖ **David Sorkin**, Frances and Laurence Weinstein Professor of Jewish Studies

2004 Sloan Research Fellowships

- ❖ **Daesung Lee**, assistant professor of chemistry
- ❖ **Jordan Ellenberg**, assistant professor of mathematics

2005 Cottrell Scholars Awards

- ❖ **Helen Blackwell**, assistant professor of chemistry
- ❖ **Gary Shiu**, assistant professor of physics

Ronald Radano, music, won the Deems Taylor award from the American Society for Composers, Authors and Publishers (ASCAP) for his book, *Lying Up a Nation: Race and Black Music* (University of Chicago Press, 2003).

National Academy of Education

- ❖ Adam Gamoran, Sociology
- ❖ Robert Hauser, Sociology
- ❖ William Reese, Educational Policy Studies and History

National Academy of Engineering

- ❖ Carl deBoor, Mathematics and Computer Sciences
- ❖ David DeWitt, Computer Sciences

National Institute of Medicine

- ❖ Barbara Woolf, Economics

American Academy of Arts and Sciences Fellows

Class I – Mathematical and Physical Science

Section 1 – Mathematics

- 1993 Richard Allen Askey
- 1987 Paul H. Rabinowitz
- 1991 Mary Ellen Rudin
- 1997 Grace Wahba

Section 2 – Physics

- 1988 Willy Haeberli
- 1960 William Lester Kraushaar
- 1996 Sau Lan Yu Wu

Section 3 - Chemistry

- 1993 Charles Philip Casey
- 1998 F. Fleming Crim
- 1992 Lawrence Frederick Dahl

Class III – Social Sciences

Section 1 – Social Relations

- 1984 Robert Mason Hauser
- 1999 Emiko Ohnuki-Tierney

Section 2 – Economics

- 1992 William Allen Brock III
- 1977 Arthur Stanley Goldberger

Section 3 – Political Science, International Relations, and Public Policy

- 2002 Virginia Sapiro

Class IV – Humanities

Section 1 – Philosophy and Religious Studies

- 1999 Elliott Sober

Section 2 – History

- 1995 Ronald Leslie Numbers
- 1997 Stanley G. Payne
- 2003 Thongchai Winichakul

Section 4 – Literature

- 2001 Lorrie Moore

The late **Tony Bleecker**, professor of botany, was honored with the 2004 Distinguished Researcher Award from the International Plant Growth Substances Association for his pioneering research on the plant growth hormone ethylene.

Dustin Cowell, professor, and **Moneera Al-Ghadeer**, assistant professor of African languages and literatures, offered the first Summer Arabic Immersion Program in partnership with Edgewood College, Madison. This course was honored by the North American Association of Summer Sessions (NAASS) with the Creative and Innovative Program Award of Merit for a Credit Program in 2004.

Robert J. Hamers, professor of chemistry, received the Arthur W. Adamson Award for his distinguished service in the advancement of surface chemistry. He was selected from a pool of 15 nominees to receive this national award from the American Chemical Society (ACS).

Bill Cronon, Frederick Jackson Turner Professor of history, geography, and environmental studies, received a Faculty Service award from the University Continuing Education Association's Conferences and Professional Programs Community of Practice. Cronon was nominated for his ten year commitment to the Wisconsin Idea Seminar, which uses university expertise and resources to address the problems of the state. Since Cronon joined the seminar in 1995, more than 300 faculty and staff have benefitted from his traveling lectures.

The American Meteorological Society (AMS) honored **Donald R. Johnson** professor emeritus of atmospheric and oceanic sciences, with the 2005 Teaching Excellence Award. The award is given annually to an individual in recognition of sustained outstanding teaching and mentoring of undergraduate or graduate students in atmospheric, oceanic and related sciences.

Carolyn Heinrich, associate professor with the Robert M. La Follette School of Public Affairs and associate director of research and training at the Institute for Research on Poverty, received the David N. Kershaw Award from the Association for Public Policy Analysis and Management. The \$10,000 award honors people younger than 40 who have made a distinguished contribution to public policy analysis and management.

In September, 2004, the Mainichi Newspapers and the Asian Affairs Research Council (AARC) awarded **Thongchai Winichakul**, professor of history, the Grand Prize of the 16th Asian Pacific Awards for the recent Japanese translation of his work, *Siam Mapped: A History of the Geo-body of a Nation*.

Campus Awards

Faculty Hilldale Awards

- ❖ **James S. Donnelly Jr.**, professor in the Department of History
- ❖ **Paul H. Rabinowitz**, Vilas Research Professor in the Department of Mathematics
- ❖ **Karen B. Strier**, professor of anthropology and affiliate professor of zoology

Romnes Fellows

- ❖ Amy Quan Barry, associate professor of English
- ❖ Jenny Saffran, associate professor of psychology

2005 Kellett Mid-Career Awards

- ❖ Alexander Dolinin, professor of Slavic languages
- ❖ Bruce Hansen, professor of economics

Alliant Energy Underkofler Excellence in Teaching Awards

- ❖ **Howard Erlanger**, professor of law and sociology
- ❖ **Eric Wilcots**, professor of astronomy

Faculty Teaching Excellence Awards

- ❖ **John Curtin**, assistant professor of psychology, Emil H. Steiger Award
- ❖ **Martine Debaisieux**, professor of French, Chancellor's Award
- ❖ **Cecilia Ford**, professor of English, Chancellor's Award
- ❖ **Clark Landis**, professor of chemistry, Chancellor's Award
- ❖ **Lisa Naughton**, associate professor of geography, Chancellor's Award
- ❖ **Jon Pevehouse**, associate professor of political science, Chancellor's Award
- ❖ **Rebecca Walkowitz**, assistant professor of English, Class of 1955 Award
- ❖ **David Zimmerman**, assistant professor of English, William H. Kiehofer Award

2005 Academic Staff Excellence Awards

- ❖ **Anne Lambert**, Robert Heideman Award for Excellence in Public Service

2005 Classified Staff Recognition Awards

- ❖ **Arnold Gudel**, shipping and mailing clerk, College of Letters and Science

2005 Arts Institute Awards

- ❖ **Tino Balio**, professor emeritus of communication arts, the Joyce J. and Gerald A. Bartell Award in the Arts.
- ❖ **Catherine Kautsky**, professor of music, Arts Institute Creative Arts Award.

Jim Baughman, director of the School of Journalism and Mass Communication., received the first **Ken and Linda Ciriacks Alumni Outreach Excellence Award** recognizing individuals who go above and beyond their job roles to support the Wisconsin Idea and the Wisconsin Alumni Association (WAA) by delivering a variety of programs to a primarily alumni audience.