

Spectrum

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Teaching Scholars Program to assist new faculty

Help is now available to new UM faculty members struggling with the multitude of details that must be handled before teaching a class. Designed to provide practical support and resources to help address the initial challenges of teaching, the University of Missouri New Faculty Teaching Scholars Program also will advance teaching quality and ultimately improve faculty retention rates.

Developed by representatives from each UM campus and System administration, The program supports existing campus programs while providing a framework and creating opportunities for inter-campus collaboration.

"This innovative program will support the efforts of each campus to expose new faculty to exciting and effective pedagogy as well as provide tools for immediate and future professional success," said Jim Groccia, director of the Program for Excellence in Teaching at UM-Columbia. Groccia is a member of the program's leadership team.

"With this program, the University of Missouri is assuming a position of national leadership by creating a system-wide culture that goes beyond simple conversations about scholarly teaching, to one that puts its money and talent into actions that make it happen."

Other members of the program's leadership team are Margaret Cohen, UM-St. Louis; Jack Anderson, UM-St. Louis; Roger Laboube, UM-Rolla; and Larry Kaptain, UM-Kansas City. Steve Graham and Paula Short represent the UM System office of academic affairs on the team.

Many new faculty members describe their first university positions as overwhelming experiences. Not only must they prepare teaching materials in an unfamiliar setting, they also must learn a new administrative system, acclimate to a new city, meet colleagues and students and continue or begin research projects. The New Faculty Teaching Scholars Program is designed to help lower the anxiety and difficulty of starting the job by providing relevant information and resources.

"During the year-long program, new faculty members will be better supported to address the specific needs and procedures at their immediate work environment and be exposed to topics common and helpful to all new faculty regardless of where they work," said Paula Short, UM associate vice president for academic affairs.

The new program will orient new faculty to interactive instructional methods that help create student-centered learning environments; support campus programs that promote the art and science of effective college teaching; and help foster campus and system-wide collegiality.

"Several technological universities are already successfully engaged in this transformation in learning science, mathematics and engineering," said UM-Rolla Chancellor Gary Thomas. "It is important that UMR become a leader in transforming the way technologists learn."

New Faculty Scholars will be selected from tenure-track faculty in their first three years of employment at any of the four UM campuses to participate in workshops on their own campus as well as joint retreats and conferences. The program is currently designed to accommodate 100 new faculty annually.

A special feature of the program is three system-wide activities that bring the entire cohort of new faculty together from across the four campuses to network and share learning ideas. The events will include a course design retreat, a teaching renewal conference and a teaching portfolio retreat.

The second major feature of the program is to establish mentoring networks and colleague circles to nurture and support new faculty. A Virtual Faculty Resource Website will be developed as well as a listserv to enhance communication across the campuses.

"Supporting faculty in their efforts to create learner-centered environments may lead to increased productivity in teaching and research and greater faculty retention," said Margaret Cohen, director of the new Center for Teaching Excellence at UM-St. Louis. "We also intend for these efforts to lead to more effective student learning."

New Faculty Scholars Campus Workshops

UM-Columbia: September 21, 2001

James Eison from the University of South Florida will present on the topic, "Creating an Interactive Classroom."

UM-Kansas City: October 26, 2001

Peter Seldin and Bill McKeachie of the University of Michigan will present on learning outcomes evaluation and faculty assessment

New Faculty Scholars System-wide Retreats

Course Design Retreat: Oct. 5-6, 2001

Teaching Renewal Conference: Feb. 14-16, 2002

Teaching Portfolio Retreat: May 23-24, 2002

UM appropriation up 3.6 percent

UM System President Manuel T. Pacheco delivered a report at the May 25 Board meeting on the fiscal year 2001 legislative session.

While harsh financial conditions prevented a budget increase for the cost of continuing operations, the legislature approved \$458.3 million for FY2002.

The appropriation is an increase of roughly 3.6 percent over last year. Nearly all of the increase can be attributed to the approval of \$15 million in recurring funds for UM's fourth and final year of mission enhancement and \$250,000 for a disabled sports recreation program.

"I think you will agree that they did a remarkably good job with the limited resources available to them," Pacheco said.

The General Assembly took an important step toward addressing the actual costs of uncompensated care incurred by University of Missouri Healthcare. State funding has been relatively flat in recent years, while the actual cost of uncompensated care has skyrocketed. Last year, uncompensated care costs increased from \$47 million to \$54 million, while the state provided only \$23.5 million in assistance. This year the University will receive an increase of nearly \$17 million from general revenue and tobacco settlement funds, bringing total state aid for uncompensated care to nearly \$42 million.

There was considerable debate this session about the best way to use funds generated by the national tobacco settlement and deposited in the state's Healthy Families Trust Fund. The General Assembly eventually passed House Bill 14, which appropriated tobacco settlement funds for a variety of health-related programs.

Among the programs to be funded by tobacco settlement money is the enhancement of the University's nationally recognized telemedicine program. Another \$21 million was set aside to fund life sciences grants and related expenses. The University will be eligible to receive a portion of that funding.

The legislature re-appropriated funds for projects on the University's 2001 capital priority list. Capital funding for these projects, which was approved last year, had been put on hold due to Hancock amendment lawsuits and then later due to anticipated shortages in state revenue.

These projects include: the Life Sciences Building at UMC; the Pharmacy-Nursing building at UMKC; Benton and Stadler Halls at UMSL; the Mechanical Engineering building at UMR; the 1993 master plan at UMSL; the McKee addition and renovation planning funds at UMC; and the Thompson Farm Ag station and Hundley-Whaley building at UMC. The state must release the funds for these projects before they can commence.

Pacheco acknowledged the legislature's strong support of a special project proposal to construct a new basketball arena in Columbia. The legislature approved a resolution authorizing the governor to issue \$35 million in bonds for the new facility, with the bonds to be sold by FY2005.

The money will be used in conjunction with UMC Athletic Department funds and a \$25 million anonymous donation. The facility is projected to cost \$75 million to complete.

Pacheco stressed that the appropriations process was by no means complete. Whether the University will actually receive the full state appropriation as passed by the legislature will depend on the availability of state revenue to meet spending targets.

"It is a prudent manager who guards against making commitments for FY2002 prior to the actual onset of the new budget year on July 1," Pacheco said.

Bennett appointed to UM Board of Curators



Angela M. Bennett

Angela M. Bennett, of Kansas City, has been appointed by Gov. Bob Holden to succeed Ted Beckett on the University of Missouri System Board of Curators.

Curator Bennett received two bachelor of arts degrees, in political science and in radio, TV and film, as well as a Juris Doctor degree, from the University of Missouri-Kansas City. She is very active in UM-Kansas City's alumni association and the law school's alumni association.

Before assuming her current position as director of the U.S. Department of Education's Office of Civil Rights, Curator Bennett was employed by the Kansas City legal firm Lathrop & Gage L.C. for seven years.

Other posts she has held include: Chief Environmental Attorney, Assistant District Counsel, U.S. Army Corps of Engineers; Assistant Attorney General for the State of Missouri; Assistant County Counselor for Jackson County, Missouri; and, Complaint Officer, Human Relations and Citizens Complaints, for Jackson County.

Curator Bennett is a member of the American Bar Association, the Missouri Bar Association, the Jackson County Bar Association and the Association for Women Lawyers of Greater Kansas City. She also is active in a variety of civic organizations as well as the Centennial United Methodist Church.

Curator Bennett has received numerous honors, including UMKC's Alumni Achievement Award, and the Mid-Continent Council of Girl Scouts' Woman of Achievement Award and was named one of the "Most Influential Black Women in Kansas City."

Technology Transfer Showcase promotes University research

The University of Missouri System's first annual Technology Transfer Showcase, "From Lab to Life," was held April 3 in Kansas City. Sponsored by the new UM Office of Technology & Special Projects, the event brought together community leaders, scientists and academic leaders to recognize and honor researchers and emerging research that has the potential to improve quality of life.

University of Missouri System President Manuel Pacheco recognized 24 "Patent Heroes" —UM researchers who had a total of 27 patents issued in 1999-2000. In that same time period, more than 130 invention disclosures— the first step leading to the protection of intellectual property —were filed by University inventors.

Pacheco said the University of Missouri System is recognizing the role universities play in incubating new businesses, attracting venture capital and developing new industries.

Pacheco said that industry recognizes the need for more innovation and basic research along with commercial application. As a result, partnerships pursued by industry have created new opportunities to support and enrich university research programs.

William Neaves, president and CEO of the Stowers Institute for Medical Research in Kansas City, said it is important to help faculty inventors make alliances with industry while protecting intellectual property rights.

"It is not too late for Missouri to stake a claim to substantial shares of the young and emerging international biotech industry," Neaves said. "This industry will grow beyond imagination as a flood of discoveries in this post-genome era revolutionizes medicine."

"As they have in the past, university scientists will contribute to this new age of discovery. As in the past, industry will turn these discoveries into products that can improve people's lives. As in the past, the transformation of these discoveries into marketable products will fuel economic growth. The only question that remains unanswered is where this will occur," Neaves said.

The University of Missouri System created the Office of Technology & Special Projects to respond to these opportunities for partnerships between business, industry and research universities. The office works with faculty to disclose inventions, conduct patent feasibility analyses and commercialization strategies and build partnerships with the corporate sector. Intellectual property considered to have significant commercial potential is protected through patenting and is then marketed and licensed to industry.

Thomas Sharpe, executive director of the Office of Technology & Special Projects, said his staff works directly with inventors and other creators of intellectual property to guide them through

the disclosure and commercialization process. "The office is the primary point of contact for individuals and companies seeking information about and access to technologies available for license.

"We work to provide an entrepreneurial environment and a support structure within the University that encourages the development and commercialization of new technologies, Sharpe said."

Sharpe's office also assists faculty in establishing spin-off companies based on University technology and helps faculty and small businesses obtain development funding.

"The future economy will depend less on where the drill press is located, and more on innovative capacity and an educated workforce," said Stephen Lehmkuhle, UM vice president for academic affairs. He said the UM Technology Transfer Showcase demonstrated substantial commitment from the University of Missouri System to help the Missouri economy benefit through local commercialization of faculty discoveries.

The UM "Patent Heros" honored at the Technology Transfer Showcase were: Robert Churchill, Lane Clarke, Leah Cohn, J. David Eick, Tzyh Chang Hwang, Kattesh V. Katti, Alan R. Ketring, Peter Konig, Robert T. Marshall, Jan A. Miernyk, Brian P. Mooney, Eric L. Morris, Satish S. Nair, W. Kirt Nichols, William C. Nunnally, Thomas J. O'Keefe, Elmer Price, Douglas D. Randall, Arnold L. Smith, James O. Stoffer, Zbylut Twardowski, Joseph M. Vandepopuliere, Wynn A. Volkert and Pu Yu.

UM faculty win highest honors

Steven Hause receives Jefferson Award



Steven C. Hause

Steven C. Hause, professor of history at the University of Missouri-St. Louis, is the winner of the 2001 Thomas Jefferson Award. The award recognizes a faculty member who rises above excellence, demonstrating clear distinction in teaching, research, writing, creative activities and service to the University and human kind.

Beginning in 2001 the Jefferson Award will be presented every two years, rather than annually, and recipients may hold the title "Thomas Jefferson Professor" during the two years they are the honoree. The award includes a \$15,000 stipend. A system-wide committee of faculty evaluates nominations submitted by the four chancellors.

Hause joined the UM-St. Louis faculty in 1969. He was a Fellow in International Studies at UM-St. Louis from 1970-1974 and from 1982 to the present. He became the first director of the Pierre Laclède Honors program in 1985. Hause also has been very active in service activities, including chairing a variety of campus and system-wide committees.

Evaluations by students at all levels have consistently ranked Hause among the best teachers in the department. In 1996 he received the Chancellor's Award for Excellence in Teaching.

Hause's impact extends around the globe. He co-authored the seven-volume "Western Civilization: A History of European Society." His books on gender politics in France have received national and international acclaim. His work is cited much more frequently than that of most scholars in his field.

Hause received his bachelor's degree in journalism from Northwestern University in 1964, and his master's degree and doctorate, both in history, from Washington University in 1966 and 1969, respectively.

Top teaching award goes to Ira Papick



Ira J. Papick

Ira J. Papick, professor of mathematics at the University of Missouri-Columbia, is the 2001 winner of the UM System's Presidential Award for Outstanding Teaching. The award, which includes a \$15,000 stipend, recognizes long-term achievements in teaching. Each campus nominates a candidate and the winner is selected by a system-wide committee of faculty.

Since joining the UM-Columbia faculty in 1978, Papick has received several teaching awards, including a William T. Kemper Fellowship for Excellence in Teaching, an Amoco Award for Undergraduate Teaching and a Purple Chalk Award.

Besides teaching undergraduate, graduate and honors classes, Papick has worked with the UM-Columbia College of Education to improve pre-college math education. He has been involved in some \$7 million in grant-funded projects to benefit middle school and high school mathematics instruction, and, is a consultant to a national program that mentors new Ph.D.'s in the mathematical sciences.

He also conducts research in commutative and homological algebra and is a reviewer for several professional journals. Papick received bachelor's and master's degrees in mathematics education from State University College of New York at Buffalo in 1970 and 1971, respectively, and a doctorate in mathematics from Rutgers University in 1975.

Christensen collects best book award



Lawrence O. Christensen

Lawrence O. Christensen, distinguished teaching professor emeritus of history at the University of Missouri-Rolla, is the winner of the Curators' Award for Scholarly Excellence. The award is given to the faculty author of the most outstanding book published by the University of Missouri Press. It includes a \$2,500 stipend. A subcommittee of the University Press Committee recommends the winner.

Christensen has served as a reviewer for many organizations, including the National Endowment for the Humanities. He co-authored *A History of Missouri: Volume IV, 1875 to 1919*, also issued by the University of Missouri Press.

Christensen, who co-wrote a history of the Rolla campus, has received several campus teaching awards from UM-Rolla, as well as the Governor's Award for Excellence in Teaching. He also chaired or served on a wide variety of campus committees. He currently serves as president of the Board of Trustees of the State Historical Society of Missouri.

The winning book, *Dictionary of Missouri Biography*, which Christensen co-edited, includes biographies of 724 individuals who helped shape Missouri and national history.

All the individuals were either Missouri-born or through their lives touched the state in a significant way. The work covers the entire history of Missouri and illustrates the state's rich cultural, racial and ethnic diversity.

Christensen received his bachelor's and master's degrees from Northeast Missouri State University in 1960 and 1962, respectively, and his doctorate from the University of Missouri-Columbia in 1972.

Venters wins Ratchford Fellowship Award



Cassy D. Venters

Cassy Dierking Venters, business and industry specialist for University Outreach and Extension's Central Missouri region, is the 2001 winner of the C. Brice Ratchford Memorial Fellowship Award.

The award, which includes a \$5,000 stipend, recognizes an individual who personifies the creativity, vision and leadership exhibited by the late C. Brice Ratchford, who was president of the University of Missouri System and dean of cooperative extension.

Venters joined the University in 1976 as an Outreach and Extension Family Economics and Management Specialist.

For six years Venters has led the Missouri Enterprise Development Focus Team, a multidisciplinary effort to assist business owners and managers throughout Missouri. Since 1990 Venters has been coordinator of Global Leadership Education, an international leadership and professional development program.

Venters received a bachelor's degree in family economics from Kansas State University in 1975, and master's degrees in extension education and in public administration from the University of Missouri-Columbia in 1979 and 1991, respectively.

Ricklefs honored for research and creativity



Robert E. Ricklefs

Robert E. Ricklefs, Curators' Professor of Biology at the University of Missouri-St. Louis, is the 2001 winner of the UM System's Presidential Award for Research and Creativity. The award, given in recognition of a sustained effort of nationally or internationally prominent research or creativity, includes a \$15,000 stipend.

Internationally recognized as one of today's leading ecologists, Ricklefs joined the UM-St. Louis faculty in 1995. The author of six major books (including two of the most influential ecology texts in existence), 199 peer-reviewed articles and 70 other publications and chapters, his work has been cited some 6,000 times since 1995.

Ricklefs' contributions to the field of ornithology and evolutionary ecology include seminal research in community ecology, species diversity and the biology of aging. Ricklefs received a bachelor's degree in biology from Stanford University in 1963 and a doctorate in biology from the University of Pennsylvania in 1967.

MOREnet one of first to be in Internet2

Mitchell named to national position

Bill Mitchell, associate vice president for telecommunications at the University of Missouri System and executive director of MOREnet, has been named one of two leaders of a national project to bring high-performance networking throughout the education community. The project is part of Internet2 —more than 180 U.S. universities working with industry and government to create advanced network applications and technologies specifically designed for research and higher education.

Mitchell will work with Louis Fox, vice provost for educational partnerships and learning technologies at the University of Washington, on a part-time basis. Both will continue to serve in their current roles at their respective institutions.

Mitchell and Fox will explore opportunities to extend advanced Internet capabilities beyond higher education. In March, Internet2 expanded access to state and regional network

organizations serving institutions such as elementary schools, secondary schools, community colleges, museums and libraries.

MOREnet was among the first five state education networks in the nation admitted to Internet2 under this expansion effort. MOREnet recently opened access to the high performance network to its member institutions.

"Access to a nationwide high-performance network is a first step," said Douglas Van Houweling, president and CEO of Internet2. "Our interest lies also in exploring ways to leverage the unique and powerful possibilities advanced networking holds for all of education. Bill and Louis will provide energy and expertise to make this happen."

"It's exciting and I'm looking forward to this opportunity, but don't think this means I'm leaving the university or MOREnet," Mitchell said. "Two years ago this wouldn't have been possible, but MOREnet has a great team in place and we will continue to operate effectively and serve our customers efficiently."

Bill Mitchell led the effort to create MOREnet, Missouri's first collaborative information technology initiative. Mitchell is a past Chair of FARNET (the Federation of American Research Networks).

MOREnet leads K-20 Internet2 initiative

As one of the first state education networks admitted to Internet2, MOREnet has been asked to take a leadership role in the development of a national Internet2 K-20 initiative. The mission of the initiative is to enable the development and use of Internet applications, tools and content to enhance teaching. The initiative also seeks to further the mission of elementary, secondary and postsecondary education in the United States.

MOREnet's role in the K-20 initiative is to facilitate strong working relationships between Missouri's K-12 and higher education institutions. MOREnet also will provide access to a rich array of information resources and educational programs.

One Internet2 K-20 initiative presently under development is called *Today's Youth, Tomorrow's Voters: Digital Discovery, Collaboration and Understanding*. It will incorporate resources of the Harry S. Truman Presidential Library's Project Whistlestop and Kansas City Public Television (KCPT-TV).

Suggestions for additional Internet2 K-20 projects may be emailed to: internet2@more.net

February 2001 Research Board awards announced

The University of Missouri Research Board, a panel of 18 faculty members, has awarded nearly \$1.7 million to support 72 research projects across the University's four campuses.

In February, researchers from the UM System filed 182 requests for grants, totaling more than \$6 million. Approximately 28 percent of the requests were granted.

The board granted 16 engineering requests for a total of \$498,647; 16 applications in humanities and fine arts for \$159,308; 11 in life sciences for \$454,259; 29 requests in physical sciences and mathematics for \$243,196; and 15 requests in social and behavioral sciences for \$336,788. (See following.)

The board has established a network of UM experts in each discipline, and they address specific criteria in evaluating a request. The board then considers the recommendations of the peer reviewers. Bill Day, professor emeritus of animal science at UM-Columbia, is chair of the Research Board.

UM-Columbia

Brenda Beerntsen, Veterinary Pathobiology, \$50,000

William Biers, Art History & Archaeology, \$5,495

Gordon Brown, Health Management & Information, \$25,000

Alison Bryant, Education & Counseling Psychology, \$28,795

Vicki Carstens, English, \$18,000

Reginald Cocroft, Biological Sciences, \$40,000

Stephanie Craft, Editorial, \$6,000

Steven Cutkosky, Mathematics, \$5,000

Philip Dale, Communication Science & Disorders, \$25,966

Walter Gassmann, Plant Microbiology & Pathology, \$50,000

Joseph Hales, Health Management & Information, \$35,000

Zhuoqiong He, Statistics, \$19,632

Carolyn Henry, Veterinary Medicine & Surgery, \$31,625

Andrew Hoberek, English, \$12,000

Claire Horisk, Philosophy, \$6,000

Abdullahi Ibarhim, Arts & Science, \$9,400

Paul Johnson, Religious Studies, \$6,900

Valerie Kaussen, Romance Languages & Literature, \$7,100

Sanjeev Khanna, Mechanical Engineering, \$28,510

Emma Lipton, English, \$18,000

Mian Liu, Geological Sciences, \$27,460

Sarah Mathews, Biological Sciences, \$42,000

William Miller, Nuclear Engineering, \$27,800

Stephen Montgomery-Smith, Mathematics, \$11,100

Carlo Morpurgo, Mathematics, \$8,400

Peter Nabelek, Geological Sciences, \$16,600

Timothy Patrick, Health Managementt & Information, \$17,389

Michael Petris, Nutritional, \$48,600

Van Pham, Economics, \$27,300

Thomas Piasecki, Psychology, \$34,465

Davina Porock, Nursing, \$39,000

Bradley Prager, German, \$6,000

David Read, English, \$12,000

Edmund Rucker, III, Animal Sciences, \$40,000

Sashi Satpathy, Physics, \$24,560

Qisheng Song, Entomology, \$35,000

Hema Srinivasan, Mathematics, \$10,200

Allen Thompson, Biological Engineering, \$30,000

Robert Tompson, Nuclear Engineering, \$34,800

Robert Weems, Jr., History, \$5,224

UM-Kansas City

Douglas Cowan, Sociology/Religious Studies, \$8,631

Jeff Gorski, Molecular Biology & Biochemistry, \$40,000

Lynda Payne, History, \$16,450

H. Glenn Penny, History, \$15,880

Zhe Wu, Chemistry, \$28,800

UM-Rolla

Diana Ahmad, History & Political Science, \$10,122

Estella Atekwana, Geology & Geophysics, \$28,060

Richard Brow, Ceramic Engineering, \$35,800

Mariesa Crow, Electrical & Computer Engineering, \$50,000

David Enke, Engineering Management, \$27,800

Nuran Ercal, Chemistry, \$38,034

Larry Gragg, History & Political Science, \$9,153

Gregory Hilmas, Ceramic Engineering, \$33,924

Umit Koylu, Mechanical Engineering, \$29,012

Norbert Maerz, Geological Engineering, \$29,000

Bruce McMillin, Computer Science, \$32,250

Cesar Mendoza, Civil Engineering, \$27,366

Brad Miller, Mechanical Engineering, \$26,877

Akira Tokuhiko, Nuclear Engineering, \$27,800

Jee-Ching Wang, Chemical Engineering, \$27,628

Thomas Whitworth, Geology & Petroleum Engineering, \$30,080

UM-St. Louis

Ta-Pei Cheng, Physics & Astronomy, \$16,200

William Connett, Mathematics, \$21,984

John Gillingham, History, \$13,984

Ruth Iyob, Political Science, \$20,800

Joyce Mushaben, Political Science, \$16,054

Aleksandr Neyman, Neurodynamics \$16,800

Kyungho Oh, Mathematics and Computer Science, \$8,400

Richard Pacelle, Political Science, \$24,988

Van Reidhead, Molecular Biology & Biochemistry, \$36,000

Steven Schreiner, English, \$9,000

Laura Westhoff, History, \$9,000