

Mathematics & Statistics Department

December 1997

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Mathematics
and Statistics
Department
University
of
Missouri-
Rolla

URL:
www.umr.edu/~mathstat/
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**Reminder: Phonathon
will be held February
8-12, 1998.**

Address Change



ROLLA BUILDING
OCTOBER 1997

In 1871 a letter to a mathematics teacher at the Missouri School of Mines (MSM) could have appropriately included "Rolla Building" as part of the address. At that time the building was brand new, belonged to the City of Rolla (built for a high school at a cost of \$35,000), and the new school MSM was renting half of the building. In 1875 MSM purchased the building for \$25,000.

A 1997 letter to a mathematics teacher at the University of Missouri-Rolla could appropriately include "Rolla Building" as part of the address. During the summer of 97, after a two million dollar renovation, the Mathematics and Statistics Department occupied the entire building. Faculty offices, graduate assistant offices, seminar and conference rooms, and one classroom fill the building. The exterior is true to its original appearance. The interior, while new, retains much of the historic atmosphere. Come by for a visit and see for yourself.

Mathematics and Statistics Department
202 Rolla Building
University of Missouri-Rolla
Rolla, Missouri 65409-0020

Editor's Comments

Greetings, it is my privilege to serve as editor for this 1997 edition of the Mathematics and Statistics Department Newsletter. I will be following in the footsteps of a gentleman for whom I held a great deal of respect. As indicated elsewhere, **DICKRAN ERKILETIAN** the founding and only editor of this Newsletter passed away last fall. As is the tradition, people come and go but the Institution continues. We the people involved in the institution simply flavor it with our work and influence. Hopefully we are able to have a positive impact on the services it provides. I have maintained a relationship with this department since 1966, and have observed a number of changes. Yet the basic activities of teaching, learning, discovering have remained unchanged, and I expect will remain unchanged in the years to come.

Editor GLEN HADDOCK

Changes in Leadership

In the summer of 96 when I returned from "retirement" to serve as Interim Dean of the College of Arts and Sciences, JOHN FULTON then Dean and Professor of Mathematics informed me that TOM INGRAM had indicated his interest in leaving the Chair position, at the end of 96-97 year, to devote his total energies to teaching and research. Together, John and I, managed to persuade Tom to postpone everything for another year in order to allow the new college dean to participate in the search and selection of his successor. Following a national search RUSSELL BUHITE joined UMR as Dean of the College Arts and Sciences. After consulting with the department, Dean Buhite recently has announced the selection of LEON M. HALL to serve as Chair of the Mathematics and Statistics Department at the end of Tom's term.

Teaching and the pursuit of new knowledge is where the excitement is in the University. Understanding a new concept, seeing its potential and how it integrates into the knowledge one already has, is very rewarding experience. Guiding others to enjoy that experience complements and encourages ones own learning. Tom's decision and comments in his column confirms this perspective as do the comments from Leon elsewhere in this newsletter.

Caslav Stanojevic's Priorities

In 1970-71 I was in ČASLAV's Real Variables class. In the fall, the class met at 4:30, and since it was clear that none of us had a class afterwards, Caslav didn't

worry much about keeping us past 5:20. In fact, we soon found that getting out of class at 6:00 was more the norm than the exception. Except for one day. That day we suddenly found class dismissed at 5:45. We later discovered that Caslav and Vera got married soon after class on that day, and that Vera had been waiting in Caslav's office for class to end, so he only kept us 25 minutes extra instead of 45.

You (GLEN HADDOCK) were chairman then, and you may recall that some of the graduate students taking Real Variables (including me) came to you to ask if the second semester class could be scheduled at 2:30. We then made sure that at least one of us had another class at 3:30. Real Variables was dismissed on time in the spring. I hope Caslav didn't mind. He could look at it as a wedding present from the class - we made sure he had some extra time for Vera.

Another LEON HALL Story

In Memory of Dickran Hagop Erkiletian, Jr.

Professor Emeritus of Mathematics, he served on the faculty at UMR from 1942 until retirement in 1978. His interest in the department continued in his retirement. In 1987, he initiated a departmental alumni newsletter and edited every issue prior to this one. Dick was born September 22, 1913 in Mayfield, Kentucky and died June 24, 1997 in Hopkinsville, Kentucky. His residence remained in Rolla, although ties to Kentucky remained firm throughout the years and he was frequently off to Kentucky to guide the management of his business interests in that area. During his career at UMR he taught the calculus, applied mathematics, and even an astronomy course in the 40's. Dick or "Erki" as his friends remember him, was one of the first to teach large sections of calculus. While his students did well on common departmental finals, he missed the personal interaction of the smaller sections. He was very active in the American Society of Engineering Education and in 1993 that organization awarded him its Outstanding Service Award in

recognition of his many years of service. He continued in his retirement years with an active participating interest in Science Fair activities, helping to organize regional fairs, visiting schools to encourage students and their teachers to participate, and arranging travel for the UMR Science Fair winners to the National Science Fair. We miss him.

Alumni News

THOMAS D. AKERS (BS '73, MS '75, Hon DocE '92), returns to UMR to head the Air Force ROTC program. It surely is good to have Tom and his family back in Missouri.

JENNIFER ANN ANDRZEJEWSKI (BS '88), Actuary with Tillinghaft, resides in St. Charles MO., Child #3 was scheduled to join two daughter in late July or early August of this year. The question, is it now three daughters or two daughters and a son? Congratulations, and let us know the answer.

KAREN CARTER (Ph.D. '73), is teaching at Trinidad Community College in Trinidad CO., she also manages a six week 'upward bound' program in the summer. The development of reasoning skills (inductive and deductive) is a goal for her students. Karen when you find the magic formula, let us know.

GAVIN MORRISON CROSS (MS '90), is an Assistant Professor at Coe College, Cedar Rapids, Iowa.

BRADLEY S. FUXA (former student and graduate assistant), is an Actuary Analyst with CommunityCare HMO of Tulsa. The child he and his wife were expecting when attending UMR, is Nicholas and now a one and one-half year old.

HAROLD A. GLENN (BS '66), is a Mathematician/Computer Scientist with the US Navy (Naval Warfare Assessment Division) in Corona, CA. His oldest son just completed a Ph.D. in (High Energy) Physics at UC-Davis, the thesis data was obtained while at the Fermi Lab in the Chicago area.

LEON M. HALL (BS '69, MS '71, PhD '74), continues his service at UMR with a recent appointment as Chair of the Mathematics and Statistics

Department. Leon will be the first alumnus of the department to serve as Chair.

ROBERT L. HOLLIDAY (BS '72), continues his service to Lake Forest College, Lake Forest, IL, as Chair of the Mathematics and Computer Science Department.

MICHAEL LEE HUFF (BS '82), is transitioning from a 15 year career component with Conoco, to new position with Computer Sciences Corporation. Michael and Kathryn welcomed child # four into the family in January 97.

WILLIAM E. MCKEE (BS '76, MS '78), is now with La Barge, Inc. in St. Louis. He reports that his daughter, Jessica Amy (now nearly two years old) is the light of his life.

RICHARD C. OTT (MS '96), is comparing the 1990 to 1995 atmospheric models and data at Cape Kennedy. He claims to miss teaching, and will 'someday' return to graduate school. A new assignment begins April, "winds coordinator" for launches and landings. He says this means getting wind data from Florida, California and all the emergency abort sites around the world, providing real time support.

LINDA M. PENAS (PhD '85), continues at the University of California Riverside, installing a Computer Laboratory last year, runs a national if not international gaming activity under the cover of a weekly departmental football pool. Adopted a puppy (Labrador Retriever X Australian Shepherd), now known as Dusty 'Statpuppy' Penas, with the size characteristics of the Labrador.

JAMES L. RICHARDS (MS '72, PhD '76), continuing his service at Bemidji State University, Bemidji, MN, now as Chair of the Department of Mathematics and Computer Science.

JOHN JOSEPH STANFIELD (BS '85), serving as an Assistant Professor at Columbia College, Columbia, MO, after completing his Ph. D. in Finance at UMC. John's wife is a Professor at UMC's School of Medicine, and they have two sons, Adam and Henry.

VERA STANOJEVIĆ (BS CSci '78), is Professor of Mathematics at Southwest Missouri State University. Vera's relationship to this department extends over a number of years. She is the wife of ČASLAV STANOJEVIĆ, was a student here at UMR as the degree indicates, and served as a Graduate Teaching Assistant in this department during the years she was pursuing a doctorate from another university. Vera has been selected as an American Council on Education Fellow for 1997-98. As a Fellow she will spend next year as an intern under the guidance of the president of one of the 1600 college and universities affiliated with the American Council on Education. It is a highly selective and prestigious fellowship, only around 30 Fellows are selected each year. Congratulations!

NANCY L. TAYLOR (BS '77), in addition to being a homemaker, she works for a CPA during tax season.

RICHARD E. WALLACE (BS '62), is with Raytheon Electronic Systems in Massachusetts where he is Principal Engineer in Operations Analysis. He says they are hungry for good college grads in a lot of areas including Math/Stat, but especially in areas related to systems design. He shares with many of us fond memories of Professor Erkiletian.

JOAN B. (BRUNE) WOODARD (BS '73), received an Alumni Achievement Award at homecoming this year. After leaving UMR, Joan earned an M.S. in Engineering Economic Systems from Stanford University, and a Ph.D. in Mechanical Engineering from University of California - Berkeley. She is currently Director of the Division of Energy and Environmental Systems for Sandia National Laboratory in Albuquerque NM.

FREDRICK EDWARD WORTH (MS '87, PhD '91), continues as a TENURED Professor at Henderson State University, Arkadelphia, AR.

RONALD E. SATTERWHITE (MS '68, PhD '72), is Asst. Resident Engineer for the Arkansas Dept. of Transportation, in Batesville, AR. Ron came to UMR with me back in 1966.

JEFFREY PAUL SCHROEDER (BS '95), is with Sattelite Operations & Control; Hughes Info. Tech.Corp., Aurora CO.

ANITA K. CHANCEY (MS '96), reports surviving the first semester of law school, and plans to come by with more details.

ANDREA LYNN VORWARK (MS '94) and **TERRY HOBBS** (former student), report they have moved to the beach (Myrtle Beach, SC, same employer just different residence) with low off season rates for visiting friends.

Faculty Awards and Achievements

TROY L. HICKS

"The 1997 MAA Missouri Section Award for Distinguished University Teaching of Mathematics was presented to Dr. Troy Hicks at the Spring meeting in St. Joseph, MO. He has taught at the College of the Ozarks, the University of Cincinnati, Illinois State University, and, since 1967, the University of Missouri-Rolla. During 39 years of teaching, he has had ten Ph.D. students and chaired the committee for over forty Master's Degree students. Over 20 of his more than 50 publications were co-authored with a student. Through his own work and that of the many students he has mentored, Professor Hicks continues to have a profound impact on mathematics in the Missouri Section and beyond." Troy holds a BS from SMSU (57), an MSE from UMC (60), an MS from Univ. of Kansas (61), and the Ph.D. from the Univ. of Cincinnati (65). He received an Outstanding Teacher Award from UMR in 1988, and a "Certificate of Meritorious Service" was awarded to him that same year by the Mathematical Association of America. In addition to his outstanding performance as a teacher and service contributions, Prof. Hicks is internationally recognized for his research contributions to the fixed-point theory.

ANNE CHRISTINE MENTZ
Anne Christine Mentz, Graduate Teaching Assistant in the Mathematics Department received the 1997 Outstanding Graduate Teaching Award from the University of Missouri-Rolla Parents Association. Anne's award is the ninth to be received by a teaching assistant in the Mathematics and Statistics Department since 1986.

TIMOTHY W. RANDOLPH
Tim's accumulated work during his time at UMR has earned him a promotion to Associate Professor with tenure in the Mathematics and Statistics Department. This recognition is based on research achievement, teaching performance, and service.

ILENE MORGAN
Among the most coveted campus awards is the Outstanding Teaching Award. Each year a committee selects, based on student evaluations of the faculty, approximately 20 faculty to receive these awards. Ilene was among those selected for the 1996-97 Outstanding Teaching Award.

Undergraduate Mathematics and Statistics Students Activities and Accomplishments

JENNIFER SUZANNE LYNCH (BS '97) was recognized for her outstanding academic achievements as a student at UMR by being identified as one of two Arts & Sciences Student Marshalls for her commencement, winter 97.

KASIE KEELING, a senior was chosen UMR's 1997 Homecoming Queen. The queen and members of her court were chosen from among 34 candidates after interviews and a campus wide election.

HEATHER HARTMAN a senior from Springfield IL (Lutheran), was the Lady Miners' second-leading scorer this year with an average of 12.9 points a game and top rebounder with 7.5 a contest. She led the MIAA in blocked shots with 1.8 a game and her 193 during her four-year career is the school record. That mark also ranks third on the MIAA's all-time list. Hartman also ended her playing career fourth on UMR's all-time scoring list with 1,213 points and second in rebounds with 747. She was second-team all-conference selection and a first-team academic all-district pick.

EMILY MILLS a junior from Whitesville KY (Trinity), was selected MIAA all-conference, honorable mention, women's basketball.

Faculty Activities and Accomplishments

MITCH WATNIK has an article with Francisco Samaniego ("The Separation Principle in Linear Regression") appearing in the November issue of the Journal of Statistical Education. Mitch presented an extension of his thesis work (asymptotic behavior of non-nested linear model hypothesis tests) at the Joint Statistical Meetings in Anaheim. This semester he will be offering a new course "Advanced Data Analysis Techniques", the course will cover the bootstrap, the jackknife, and Bayesian methods. He also serves as Faculty Advisor for the UMR Racquetball Club.

The Spring Topology Conference in Lafayette, LA was attended by **TOM INGRAM** and **ROB ROE** of our faculty and graduate students **DAVID RYDEN**, **JONATHAN HATCH**, **TOM KACVINSKY**, **LARS SEME**, and **BEN MARLIN**.

TOM INGRAM has a paper with **MARCY BARGE** ("Inverse limits on $[0,1]$ using logistic maps as bonding maps") appearing in the journal *Topology and Its Applications*. This past December Tom presented a paper (written with **ROB ROE**) at a special session in topology (a part of the joint meeting of the AMS and Sociedad Matematica Mexicana) held in Oaxaca, Mexico. Duing two weeks in

January he will be in Mexico City presenting a workshop on inverse limits at the National University of Mexico.

ILENE MORGAN has articles appearing in each of three journals "Designs, Codes, and Cryptography", "Discrete Mathematics", and "Annals of Combinatorics". In addition this past summer she presented a paper at the International Conference on Combinatorics, Information Theory, and Statistics at the University of Southern Maine in Portland, Maine.

ALBERT GOODMAN co-authored two group theory papers which were published in the "Journal of Algebra". During the summer he also attended an international group theory conference at the University of Bath in England.

TIM RANDOLPH had three co-authored papers accepted or appearing this past year in the journals, "Journal of Differential Equations", "Transactions of the ASME Journal of Applied Mechanics", and the Proceedings of the 36th IEEE Conference on Decision and Control. He taught at the University of Washington in Seattle this past summer, and organized a special session on "Operator Methods in Dynamics and Control" for the "Joint Southeast Atlantic Coast/Midwest Differential Equations Conference, this was held at Vanderbilt University in Nashville, TN.

ROGER HERING's paper "Boundedness in Functional Differential Equations" has been accepted for publication in the journal "Differential Equations and Dynamical Systems".

STEVE CLARK participated in a workshop on Difference Equations at the University of Wyoming in July. Also, with support from the Science Alliance, visited the University of Tennessee Center of Excellence from May 21 through June 13.

Comments From The Chair

I am in the middle of my ninth and final year as chair of the department. It has been a great nine years for me and, I hope, as well for the department. When I arrived, I found that the department had been in good hands with GLEN HADDOCK and LOU GRIMM as my immediate predecessors in office. I believe I am leaving the department in capable hands with LEON HALL taking the reins as chair next fall. One of the reasons I chose to come to UMR when I was offered the position as chair was I believed that this was a department I would enjoy finishing my career in after I had served as department chair. I was right in that assessment of this department. I am looking forward to returning to teaching and pursuing my research in an excellent department. As I think back over my nine years here, there are numerous changes which have taken place within the department and on the campus over that time. Many of those changes have improved matters for the department or for the students taught by the department. With one exception, I will not get into the details of the changes which have occurred (partly because I have noticed that I have tended to become more and more verbose with these comments over the years). The one notable change directly affecting you is what we have done with the donations you have made to the department over the years. Many of those dollars have been placed in the permanent endowed funds of the university to benefit students in the department through scholarship support. As we go into this year's phonathon campaign, we have a total of \$30,500 in the corpus of the Alumni Endowed Scholarship Fund. Your

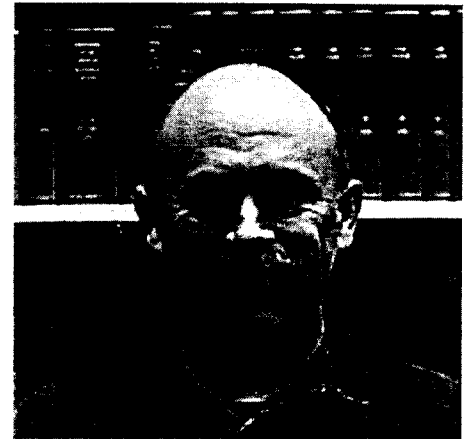
generosity has allowed us to do this and everyone connected with the department (students, faculty and staff) appreciates what you have made possible. I am pleased to report that this is not the only source of endowed funds in the department. One alumnus, GARY HAVENER, established a scholarship fund several years ago and it is worth almost \$81,000 today. In fact, the department now has almost \$150,000 in endowed funds, most of which are earmarked for scholarships. This year our phonathon is scheduled for February 8 - 12. I hope you enjoy hearing from mathematics majors and students interested in mathematics during the calling period. In the past couple of years, our student chapter of the Mathematical Association of America has taken the responsibility for making the initial calls and I appreciate their efforts very much.

This past year brought sadness to the department when DICK ERKILETIAN died. Dick had served as editor-in-chief of the newsletter for a number of years and he always did a superb job of producing it. I particularly enjoyed his articles dealing with the history of the department. He was a regular around the department showing up virtually daily except when he made trips back to his beloved Kentucky. We miss him very much. GLEN HADDOCK graciously agreed to assume the responsibility of editing the newsletter this year and I think you will agree that he has done a fine job. Thank you Glen! Thanks also go to the department secretaries, MARTHA GRISHAM and TINA MARTIN, for their hard work in getting this newsletter into your hands.

I cannot end this without mention of the move of the department into the newly renovated Rolla Building. Most of you probably remember the Rolla Building as a neglected old relic from the deep recesses of UMR/MSM's distant past. Only the exterior remains of that building. The interior has been completely rebuilt and we now have a new home for the department. For the first time, we have our faculty and graduate teaching assistants housed under the same roof. This is the way a graduate program should be housed. I am grateful to the campus administration and the Missouri state

government for providing this marvelous facility to house the department into the next century. As always, but especially now that we have new quarters, we would welcome a visit from any and all of you who pass this way. The faculty, staff and I would be delighted to see you. If you do not get a chance to come in person, we have a link to pictures in and around the Rolla Building on the department's home page on the web at <http://www.umar.edu/~mathstat/>. Simply click on the link "Rolla Building" near the bottom of the page.

Introducing Professor Leon M. Hall



LEON M. HALL

Leon earned the BS from UMR and the BSE from UMC in 1969. He taught high school mathematics for one year before returning to graduate school at UMR to earn an MS in 1971 and a Ph.D. in 1974. While completing the Ph.D. he spent a year as a junior high mathematics teacher in the Rolla schools. Joining the University of Nebraska-Lincoln as an assistant professor of mathematics in 1974 he taught and continued his research in the area of differential equations, and was promoted to associate professor in 1978. In 1985 he returned to UMR as an associate professor of mathematics, and was promoted to professor in 1991.

Within the University he has been active in departmental, college and campus committees and has provided leadership at each of these levels. His

professional involvement includes service as referee for five journals, and membership on the editorial board of two journals.

The research and studies of Dr. Hall has led to twenty five publications, two media productions and numerous presentations. In addition to involvement in graduate research, he has been a department leader in undergraduate research activities.

Professor Hall's training, experience and outstanding performance in teaching, research and service assures all of us that he is well prepared for the leadership role he is about to assume. I'm sure each of you will join me in offering support and wishing him well in this new role.

Comments From The Chair Designate Leon M. Hall

Professors often downplay going into administration. Last year, when I was on a search committee for an administrative position, it was suggested that one qualification should be that the person didn't really want the job. The committee got a chuckle out of this, but it was not said entirely in jest. Part of the reason for skepticism about administration is that being a university professor can be incredibly satisfying. We get to pursue a subject we love and we get to teach students who are, at least at UMR, motivated to learn. Except for the classes we teach, there are few restrictions on when we work, our research topics are usually ours to choose, and there is little direct supervision of our daily activities. Obviously, to be successful, a professor has to be highly self-motivated, and that is yet

another plus; our colleagues are interesting and stimulating people with whom to associate. I look forward to going to work most of the time.

Why, then, did I accept the position of department chair? For one thing, the chair is still a professor, and can at least partly enjoy the above benefits. Another reason is that the new dean of the College of Arts and Sciences, **RUSSELL BUHITE**, is someone with whom I believe I can develop a good relationship for the benefit of the department. Most important, though, is the nature of the UMR Department of Mathematics and Statistics itself.

Our department has been blessed with exceptional leadership for at least the last 30 years, and I will be in real danger of straining something trying to follow in the footsteps of my predecessors. Fortunately, three of those predecessors, Professors **HADDOCK**, **GRIMM**, and **INGRAM**, will still be around (yes, Glen, I know you retired, but you didn't leave Rolla), so there will be lots of good examples to follow and several sources of sound advice available when I need them. Let's hope I have sense enough to know when to follow the examples and ask for the advice.

The members of our department get along with each other. We do not always agree on everything, but differences are respected, and the kind of polarization that can be destructive has not happened here as far as I can tell. Good leadership has had a lot to do with this, but much of the credit should go to the faculty themselves. They are good, reasonable people, in addition to being fine mathematicians. And I can't forget the office staff; **MARTHA GRISHAM** and **TINA MARTIN** keep the day-to-day business of the department running smoothly and are an important part of the positive climate. I hope we do not take our congeniality too much for granted, because it is not as common as we might think. Visitors from other schools often notice and mention that we have an exceptionally stress-free department.

I plan to continue to look forward to going to work.

New Faculty Member

MICHAEL DORFF

Michael is originally from Palos Verdes, CA, a suburb of Los Angeles. He earned a BA in Mathematics Education from Brigham Young University in 1986. Following his bachelors degree he taught in his home town high school for one year, then for three years in he served as mathematics teacher and soccer coach for a US Military school in Nuernberg, Germany. Returning to the US he earned an MS in mathematics from the University of New Hampshire in 1992. Following that he earned his Ph.D. from the University of Kentucky working in the area of classical complex analysis. Michael and his wife Sarah have four daughters, the first born in Palos Verdes, the second in Germany, the third in New Hampshire, and the fourth in Kentucky. While in Kentucky he was awarded the Chancellor's Exceptional Teacher-Scholar Award.

Already Michael is coaching his daughter's "12 and under" RAYSL soccer team, taught 10 one-hour math enrichment sessions at the Mark Twain Elementary School, and is an active member of the local LDS church. Michael received a \$1200 NSF travel award to present his research results at an International Conference on "Computational Methods and Function Theory" in Nicosia, Cyprus. Other interests include jogging, racquetball, classical music, PBS Mystery, and strategy games.

Welcome to you and your family.

Retirement

Dr. Troy L. Hicks-1967-97 30 years of service

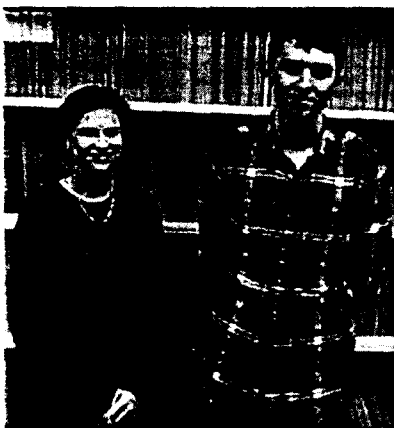
Prior to joining the department in 1967, Troy earned four degrees (BS '57 from SMSU at Springfield, M.Ed. '60 from UMC, MA '61 from the Univ. of Kansas, and Ph.D. '65 from the Univ. of Cincinnati). In addition he had served as an assistant professor at the School of the Ozarks '57-60, instructor at the Univ. of Cincinnati '61-65, and as an associate professor at Illinois State University in Normal.

Professor Hicks and his students did research in quasi-uniform space theory, fixed point theory and probabilistic metric spaces. These efforts provided 10 students with problems leading to their Ph.D. dissertations and over 50 research papers authored or co-authored by Dr. Hicks.

During the 30 years at UMR he has taught most of the courses we offer in the undergraduate program, and regularly taught courses in general topology, functional analysis, and real analysis at the graduate level. Among his many awards was a University of Missouri-Rolla "Outstanding Teacher Award". A 1997 award is noted elsewhere in this Newsletter.

If one lists the tasks to be done in a department, or those required to keep a professional organization like the Missouri Mathematics Association functioning, you will find that over his career Troy Hicks has done most of these tasks. An unflinching steady hand in the work we do. We wish him well in retirement, and expect him to continue close ties with the department.

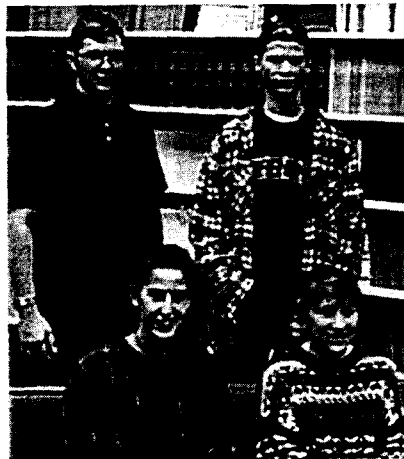
Scholarship Recipients



Ginger Appleberry & Jacob Owens
Eck Scholarship



Steven Alferink
Eck Scholarship



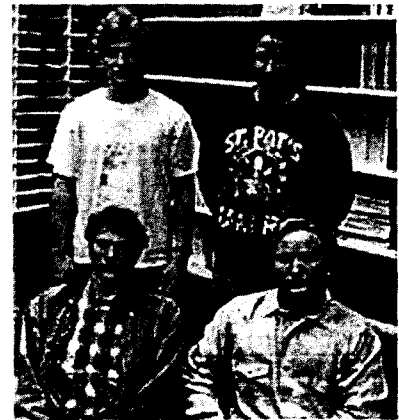
James Atkinson, Jason Hoffman,
Heather Hartman & Brandy Tucker
Havener Scholarship



Clare Galper
Havener Scholarship



Chris Maloney
Faculty Scholarship



Mike Hunter, Andrew VanBrunt,
John Seiffert & Jad Hayes
Alumni Scholarship

Full Circle Campaign

This year UMR announced, its first ever major fund-raising campaign, the "Full Circle Campaign". This campaign has the goal of raising \$60 million for the campus by June 30, 2001. Already, \$25.6 or 42.6+% has been identified through gifts and pledges. If you have not heard about this effort, you surely will be hearing about the campaign. Plans call for the \$60 million is to be used as follows:
Students - scholarships and support (\$17 million).
Faculty - professorships, chairs, and departmental support (\$16.75 million).
Program enrichment (\$12.65 million).
Facilities and equipment (\$9 million)
Annual unrestricted giving (\$4.6 million).
The campaign is aimed toward assuring that UMR remains one of the

nation's premier universities. UMR Chancellor John T. Park says, "a successful campaign will ensure that our students have the tools they need to succeed in the 21st century". Five UMR alumni are providing the leadership for this effort.

The **departmental phonathon**, this spring, will be emphasizing this effort. A larger pledge to be paid over the next three to five years will be encouraged.

LUCY SUTCLIFFE, the College of Arts and Sciences development person, continues to encourage alumni and friends to consider major bequests, and estate planing which can include various kinds of trusts. In recent years, the charitable remainder trust has been a popular way to accomplish the goals of the giver, minimize estate tax, and provide support for the university. Lucy invites you to contact her through the department, email her at LucyS@umr.edu, or call her directly at (573) 341-4490.

The money to operate a public university comes largely from four sources. These are, state allocation, student tuition and fees, grants and contracts, and gifts and endowment generated income. The fourth category offers a great potential for enhancing the educational opportunities of our university. Your ongoing support can assure our success.

Contributions

Matching Gift Companies

Amerisure Companies
 Conoco Inc.
 Engelhard Corporation
 Hewlett-Packard Company
 NCR Corp
 Price Waterhouse Fdn.
 SBC Foundation
 Texaco Philanthropic Foundation
 United Services Auto Association
 Warner-Lambert Fdn.

Gifts

Deborah J. Ackerson, '79
 Thomas D. Akers, '73
 Dennis R. Anderson, '74
 Jennifer A. Andrzejewski, '88
 Gail A. Babson, '84
 John I. Baldwin, '82
 Timothy Lorenz Bannes, '86
 William M. Black, '72
 Elizabeth J. Borchelt, '89
 Paul Steven Bozdech, '93
 1970 Linda L. Brady, '70
 William O. Bray, '76
 William F. Breig, '62
 Van W. Brock, '63
 Harmon C. Brown, '72
 Willis L. Brown, '70
 Susan L. Callahan, '78
 Allan B. Capps, '72
 John W. Carlson, '70
 Karen S. Carter, '73
 Devon Lee Christensen, '92
 Grant A. Christensen, '92
 Joseph Shawn Crawford, '96
 Gavin Morrison Cross, '90
 Kevin Thomas Davis, '86
 Sally Andrea Diggins, '85
 Edward W. Dorrell, '68
 Henry Pat Duvall, '62
 Barbara Edson, '64
 Shawn David Edwards, '92
 Jimmie R. Eidson, '65
 Paul W. Eloe, '77
 Larry E. Estes, '69
 Jesse D. Evans, '65
 Colleen A. Fitzgerald, '74
 William J. Fitzpatrick, '73
 Glenn Russell Fletcher, '95
 David R. Fogle, '71
 Raymond F. Ford, '70
 Donald H. Galli, '74
 Wanda L. Garner, '75
 August J. Garver, '64
 Lori J. Gerlt, '89
 Harold A. Glenn, '66
 James Michael Guffey, '85
 A. Glen Haddock
 Harold W. Hager, '70
 Leon M. Hall, '69
 Linda Marie Hand, '82
 Larry G. Haney, '68
 J. C. Hankins, '76
 Gary W. Havener, '62
 Victor J. Hegemann, '74
 James C. Helm, '64
 Michael G. Hilgers, '85
 Robert L. Holliday, '72
 Michael Lee Huff, '82
 Shirley C. Huffman, '78
 William Thomas Ingram
 James E. Jamison, '65
 Jeffrey Wayne Jenness, '88
 Kenneth G. Johnson, '69

Rana Elaine Jones, '87
 John C. Kieffer, '67
 J. Curtis Killinger, '73
 Sherry Lee King, '95
 Joseph V. Kingston, '67
 Mary Ellen Kirgan, '93
 John D. Kubicek, '75
 Chin-Ming Lee, '70
 Pamela A. Leitterman, '75
 Christopher Lee Lewis, '94
 Stanley Benson Lindesmith, '90
 Kenneth A. Lindsey, '96
 Julie Lynn Luckerman, '89
 Marcel A. Maupin, '78
 Denise Ann Mausshardt, '83
 Rhonda Louise McKee, '84
 William Daniel Noble, '81
 Janet R. Oakes, '75
 Teri Lynn Oster, '84
 Neil C. Pamperien, '64
 Kenneth C. Parsons, '74
 Linda Marie Penas, '85
 C. Charles Peterson, '66
 David Bryan Porter, '81
 Ralph T. Record, '64
 John K. Reed, '80
 Paul Whitney Reiman, '83
 Nancy Lillian Reiter, '82
 James L. Richards, '72
 Donna B. Riggs, '94
 John R. Riggs, '67
 Joseph L. Rooks, '73
 Linda Marie Saliga, '89
 Ivan J. Schirer, '70
 Sherman W. Sherrick, '68
 Marc M. Solomon, '68
 Ray D. Sparks, '68
 Joseph W. Stahl, '69
 George W. Stair, '62
 John Joseph Stansfield, '85
 Eric M. Stein, '72
 Brenda Kay Stokes, '87
 Gregory M. Strunk, '74
 William H. Tanzey, '74
 Harold W. Tarr, '70
 Nancy L. Taylor, '77
 Cheryl Dianne Tefft, '89
 Dolores M. Tichenor, '76
 Mary L. Trnka, '75
 Marian R. Wagener, '71
 James Carl Wagner, '94
 Michael D. Wagner, '67
 Kendall H. Walden, '67
 Lois J. Walker, '76
 William D. Webster, '69
 Curtis L. Wells, '70
 Douglas Eugene Wilson, '89
 Adam Lee Wineinger, '92
 Shelly Ann Wineinger, '91
 Patricia S. Wist, '74
 Alan M. Wolff, '71
 Glen D. Woods, '64
 John J. Zenor, '63