Research Issue

Beyond the Classroom
Faculty embrace practical, promising applications of research

Dr. Robin Selinger
Meet Scooter the Soft Robot

Lauren Rich Fine
The fourth estate still matters

EXCELLENCE in Action
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Anyone who has interacted with Kent State University knows that one of our hallmarks and strengths is academic and applied research. Major research universities, like Kent State, generate the knowledge that fuels this nation’s scientific and economic engines. The discoveries and advancements made at Kent State are being applied and adapted in classrooms, professional fields, laboratories, bedsides and marketplaces across the globe today.

Kent State’s base of expertise is considerable and continues to grow daily. In this issue of Kent State Magazine, you will read about some of the faculty members working to advance the university’s levels of investigation and prepare our students to excel in a new world.

You will see how Dr. Shan-Hu Lee, assistant professor of chemistry, is conducting important global climate research, while Dr. Nancy Docherty is directing Kent State’s Schizophrenia Lab and a team of colleagues who are gaining recognition for their efforts to solve the intellectual puzzle of schizophrenia and lessen its effects on patients and their families.

Professor Laura Bartolo, director of the newly established Center for Materials Informatics, is leading the creation of an information infrastructure that will create new pathways and tools for students and scholars to advance scientific knowledge. Dr. Nancy Padak, professor of teaching, leadership and curriculum studies, is working to advance adult and family literacy, as well as children’s reading and vocabulary skills through her work with the Ohio Literacy Resource Center, Ohio Literacy Alliance and GED Scholars Initiative.

Further, Lauren Rich Fine, who joined the College of Communication and Information after nearly two decades as one of Wall Street’s eminent newspaper business analysts, is working to enhance students’ preparation for the ever-changing world of professional media. And while Dr. Robin Selinger, professor in the Chemical Physics Interdisciplinary Program, is working with concepts that someday may play a vital role in medicine, she also is striving to be the same type of role model to her students as the one who inspired her.

These are just a few of hundreds of world-class examples illustrating Kent State’s excellence agenda. We take seriously our role in helping prepare Ohio for the future and will continue to produce skilled graduates, increase research funding, establish new and relevant academic programs and pursue the academic-industrial partnerships that allow us to connect Kent State faculty expertise directly to economic development and student success.
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Beyond the classroom, beyond the laboratory

Faculty embrace practical, promising applications of their research.

*Dr. Shan-Hu Lee*
Dr. Nancy Docherty

Kent State University’s research efforts have continued to grow in scope and impact, not to mention funding. In fiscal year 2006-07, for example, the university received $33 million in external funding for research, the largest amount ever received for this purpose.

The sometimes inescapable measure behind the dollar signs is the passion and commitment faculty invest in their study, the depth and breadth of knowledge gained and its impact on classroom instruction, and, most importantly, the manner in which the research contributes to the greater good.

Whether it’s the study of atmospheric chemistry and its connection to climate change, or the research behind literacy and how teachers can become better equipped to work with struggling readers, Kent State faculty are conducting research that will have a lasting impact on the university, as well as their chosen field of study.

Dr. Shan-Hu Lee

Dr. Shan-Hu Lee, assistant professor of chemistry, believes that she was in the right place at the right time when it comes to her research.

Lee, who received her Ph.D. in chemistry from the University of Tokyo in 1997, found herself especially interested in the area of atmospheric chemistry, which examines the effects of aerosol on climate, atmospheric composition, air quality and human health.

Former Vice President Al Gore’s receipt of the 2007 Nobel Peace Prize for research pertaining to climate change makes it an even “hotter topic,” she says.

“Being in the right place at the right time is extremely important when you are conducting research. Now, climate change is such an important social issue because it was neglected for so long. I am lucky to be involved,” she says.

Lee leads the Department of Chemistry’s Atmospheric Chemistry Group, which examines the high uncertainties in global climate predictions, largely due to the limited understanding of aerosols and clouds. Her research is designed to yield a better understanding of how aerosol formation processes in the atmosphere.

Funding for Lee’s research totals $1.8 million from the National Science Foundation and the National Oceanic and Atmospheric Administration.

Even though atmospheric aerosol nucleation is a popular topic, Lee says that she is one of only five researchers internationally conducting this type of research in the laboratory.

Her findings in aerosol nucleation have resulted in publications in high-impact journals including Science, as well as receipt of the prestigious National Science Foundation’s Career Award.

Dr. Nancy Docherty

When Dr. Nancy Docherty was a graduate assistant, she had the choice of conducting diagnostic interviews at a state psychiatric hospital or working as a teaching assistant. She chose conducting diagnostic interviews and knows she made the right decision.

“The main reason I chose this field of study was because psychosis causes a great deal of suffering, and it is poorly understood. There also is something about psychosis and the patterns in psychosis and how that relates to being human that is very interesting to me,” says Docherty, professor of psychology, director of clinical training and Kent State Distinguished Scholar.

Docherty continued her study in the Schizophrenia Lab at Binghamton University, where she performed doctoral work and developed ideas for research in the area of psychosis.

She is director of Kent State’s Schizophrenia Lab, which focuses on the interactive effects of cognitive impairment and emotional reactivity on communication disturbances and other symptoms in people with schizophrenia. The study of emotional reactivity includes examination of social environmental factors that influence the clinical state of patients.

The lab also studies an individual’s vulnerability to schizophrenia and the pathways by which vulnerability progresses into manifest disorder.
In a recent study funded by the National Institute of Mental Health and the National Alliance for Research on Schizophrenia and Depression, Docherty's team looked at the effects of emotion on schizophrenic symptoms in relation to stressful life events.

“We looked at symptom change and the idea was that there are certain patient characteristics that would predict whose symptoms are most vulnerable to stress, who is going to become more psychotic under stress, and who isn’t, with trait emotional reactivity being a main characteristic,” she says.

The research was published in the Schizophrenia Bulletin, and as a result, Docherty submitted another grant proposal to the National Institute of Mental Health to conduct a similar, larger study in the future.

Researching schizophrenia is an intellectual puzzle, one that Docherty says she enjoys, but most importantly, it has real meaning for real people. “We have been doing schizophrenia research for decades and we’ve learned a lot,” she says, “but we still don’t have a very clear picture of what it is, what causes it, or how best to help people who have it.”

Professor Laura Bartolo

Professor Laura Bartolo is enthusiastic about her work with the Materials Digital Library Pathway because it has practical and promising implications, which “is always a useful balance,” she says.

Bartolo, professor and director of the newly established Center for Materials Informatics, is the principal investigator of the Materials Digital Library Pathway or MatDL, an information infrastructure built to support materials science education, research and interactions between the two, as well as to disseminate resources generated by government-funded materials science collaborations. The MatDL is supported by the National Science Foundation and is part of the National Science Digital Library Program.

The pathway offers material science undergraduate and graduate students, educators and researchers a variety of content and services.

The project received $1.5 million of a $2.7 million four-year grant from the National Science Foundation in 2005, which placed Kent State at the helm of collaboration with the National Institute of Standards and Technology, Massachusetts Institute of Technology, University of Michigan, Purdue University and Iowa State University. MatDL has recently forged partnerships with The Minerals, Metals and Materials Society (TMS), Carnegie Mellon University and the Pittsburgh Science of Learning Center.

Bartolo’s current work in MatDL focuses on platforms supporting collaborative computational material research and education code development.

Cyber-enabled research and learning continues to gain momentum rapidly and will dramatically improve the way we are all able to work, Bartolo says.

“The sciences are at the forefront of digital data and, with the collaboration of information management, are driving this project in many ways,” she says. “How we conduct our research now, we know, will be different from how we will conduct it in the future.

Professor Laura Bartolo
“From a Kent State perspective, what is critical is the emergence and importance of digital information being captured at the time it is generated by the group or individual, and that the researchers can access and organize material in a way that helps them do their work in a secure and private area,” she says.

Information is tagged, described and processed in a manner so that the original ideas of the author can be associated in a format that makes it easy to exchange with other researchers when the work is ready to be made public.

“This project is promising because of the tools and services that make it useful now, as well as because of what it explores that can be possible,” she says. “It’s a balance of providing some tools that are useful, tangible and deliverable now. It’s saying ‘we can do some of these right now,’ and it also asks ‘what if’... It encourages us to look at future possibilities.”

Dr. Nancy Padak

Dr. Nancy Padak, professor, teaching, leadership and curriculum studies, began her career as an English teacher. When she returned to college to take a few classes, she had to take a reading course and by mid-semester realized she was drawn to the field.

She switched her major and hasn’t looked back.

“When you really think about it, all of the things an individual has to figure out in order to learn how to read, it’s just fascinating,” Padak says.

Padak’s fascination with reading parlayed into a career, and today she is nationally recognized in the field of literacy education. She serves as principal investigator for the Ohio Literacy Resource Center, which provides support, training and resources for people who work in and attend classes at adult and family literacy programs.

She also heads the GED Scholars Initiative and the Ohio Literacy Alliance and has written or edited a dozen books and more than 100 scholarly articles and chapters.

“The work that has characterized my professional life is that I like to play with the research-into-practice praxis, or that intersection,” she says. “Sometimes practice gives rise to research, which goes back to practice. And other times you do research because you care about it. You take results and then figure out how to make them broadly accessible. I am always looking for research that can help teachers teach kids.”

Padak’s recent work includes researching and developing an at-home parent and child reading program called Fast Start for Early Readers, a research-based, send-home literacy kit co-developed with fellow professor, Dr. Timothy Rasinski, professor, teaching, leadership and curriculum studies.

“We started Fast Start because schools were saying that they wanted to get parents involved with their child’s education, but teachers were saying that it is just too difficult a task,” she says.

Padak and Rasinski reviewed the research and developed short, repetitive poems with accompanying word games parents could play with their children for 10 minutes a day in order to improve reading skill and vocabulary.

“And what do you know? It worked like a charm. The kids and parents loved it,” she says. “This is an example of starting with a problem in practice and using research as a way to solve it.”

Fast Start is now available for sale through Scholastic Inc. Padak’s next endeavor includes developing an online resource bank for the Cuyahoga County Educational Service Center, to assist teachers and administrators with involving parents in the educational process.

Padak says future research projects include looking into how better to support classroom teachers. “It’s really tough for them these days, with high stakes testing and dwindling financial support for schools,” she says.

For instance, Padak is working with colleagues on an instructional series to help children better develop their vocabularies.

“The research shows that half of what helps a person become better at comprehending any text is a good vocabulary,” she says. “We will take what we know constitutes best practice and create a format for the information that is accessible for teachers and children.”

For more information, visit www.kent.edu/magazine.

Visit www.kent.edu/magazine to read more profiles of Kent State faculty and their research.
Robin Selinger waits patiently for her laptop to warm up. Within it is an animation of a new generation of liquid crystal technology—a liquid crystal elastomer which Selinger playfully dubbed “Scooter.”

And scoot it does. The rubber band-like segment of elastic liquid crystals contracts on itself, ever so slightly, and then moves forward as it stretches to, and then slightly beyond, its former size.

Selinger smiles with pride, knowing that the concept may someday play a role in medical devices within the human body that can aid in transporting fluids such as blood or necessary medicines within recalcitrant veins. The movement and shape changes in liquid crystals in biological applications also holds promise for use in artificial muscles, with advances in a subspeciality called soft robotics.

Since her career began in 1989, Selinger has steadily moved along in her academic career as reliably as Scooter.

A three-time graduate of Harvard University, she says that her very earliest inspiration to become a scientist evolved from summer experiences that provided early career direction.

Selinger grew up in Arlington, Texas, attending a private school some distance from her home. Her parents signed her up for a private driving service used by local families to travel the 25 miles to the campus. The driving service was a second job for the school’s physics teacher and his wife.

When Selinger enrolled in the physics class, the connection she made with the teacher on those daily rides paid off. “I was only too happy to give my heart and soul to study physics,” she says.

Turns out she was adept at science, enrolling and excelling in chemistry the following year. Her chemistry teacher recommended her for a six-week summer program, funded by the National Science Foundation, in Boston.

It was so transformative that Selinger spent rotating stints in either her regular high school or in a research experience with Stanley for her senior year.

Today, Selinger helps arrange visits to Kent State by high school students with a budding passion for sciences to help expose the next generation of scientists to the moments of discovery she experienced during that period of her life.

After receiving her degrees, Selinger landed three important postdoctoral fellowships, and then an assistant professorship with the Catholic University of America in Washington, D.C.

Throughout that period, she and husband Dr. Jonathan Selinger raised two sons, now teenagers. She recalls those years as a time of balance and cooperation to achieve both career and family success.

The Selingers both found positions with Kent State in 2005, she as a professor in the chemical physics department, and he as Kent State’s Ohio Eminent Scholar in Soft Condensed Matter Theory.

Aside from her study of liquid crystals, she is a cantorial soloist with Temple Beth Shalom of Hudson. She describes music as one of her consistent joys, from instrumental music lessons in elementary school through the vocal training she maintained until graduate school.

“My family, physics and music are my life,” she says with a smile.

Turning back to her computer screen she reflects again on Scooter and the possibilities in soft robotics. This fall, she will teach a class in computational materials science, where students will be tasked with creating simulations of their own. That experience, she hopes, will ignite a lifelong passion in her students to create something that will one day outrun even the tenacious Scooter.

For more information, visit www.kent.edu/magazine.
The fourth estate still matters

Lauren Rich Fine brings news business analytical skills to academia

Lauren Rich Fine is a practitioner in residence with the School of Journalism and Mass Communication.

Lauren Rich Fine is a woman with a well-schooled opinion on some of the nation's most notable newsmakers—and how they produce the news.

Rich Fine, who spent 19 years as a newspaper industry analyst, recently became a Practitioner in Residence in Kent State's College of Communication and Information.

Dr. James L. Gaudino, dean of the college, welcomes Rich Fine's unequalled perspective. "Media management and economics are critical subjects within the industry and within the academy," Gaudino says. "I cannot think of anyone more capable of helping media managers navigate this shifting landscape than Lauren."

Still, even though she's now away from the rigors of being deep into research at financial giant Merrill Lynch, media observers are still hungry for her insights into the nature of the newspaper industry. Rich Fine is the first to admit that the print media is under siege. The advent of the Internet, along with accessible and inexpensive computer and video equipment, has made a journalist out of anyone with an opinion and Internet access. Couple that phenomenon with a slackening economy where advertising is shrinking, and what results is a potent combination of cheap, free electronic content and a defection from the printed word.

To the contrary of what many venerable old-line media outlets are doing, Rich Fine preaches a doctrine of keeping the people that make the news the news, and finding other operating efficiencies to trim costs. She says that journalists will never be obsolete, and the public service they provide should be carried out by trained, objective professionals—not disgruntled neighbors with video cameras.

Key to survival in the 21st century, Rich Fine believes, is fine-tuning audiences. Finding the right audience, she says, will help drive the right people to the right places to find their news—and perhaps view an ad or two.

"Not all eyeballs are as valuable to advertisers as the right eyeballs are," Rich Fine explains.

With an M.B.A. and an analytical mind, Rich Fine admits that sometimes her best sources for reality checks come from within her household. She recounts the story of one of her teens surfing the Web and being bombarded by content from Nike. Rich Fine recognized the fine-tuned marketing effort. Her daughter only saw the shower of subtle marketing pitches as part of the entertainment she sought out.

"News Corp. has invested in MySpace," she says. "And that's very shrewd of them."

The future holds a revival of a research project Communications Studies Professor and Director Stanley Wearden first concluded 20 years ago, related to the health of the newspaper industry. Rich Fine is also keeping her research skills honed by devoting her time and prodigious talents to ContentNext, a media reporting company.

"Lauren's at the top of her field," Gaudino adds. "I'm very pleased to have her working with us."

For a new generation of student journalists, as well as old-timers who seek to understand and explain what's ailing the news business in the 21st century, Lauren Rich Fine's eyeballs are a welcome addition to Kent State.

For more information, visit www.kent.edu/magazine.
A nearly 100-year-old curiosity discovered using carrots helped launch the creative entity that today is the source of international renown and millions of dollars for Kent State University researchers.

In 1888, Friedrich Reinitzer, an Austrian physiologist conducting experiments on cholesterol, discovered a fourth state of that compound. Aside from the usual states of matter — liquid, solid and gas — some of the derivatives were observed in a crystalline state in between two, rather than the commonly seen one, melting points.

At the lower melting point, the liquid appeared cloudy, and at the higher melting temperature, clear. Other scientists helped Reinitzer prove that the cloudy liquid had crystalline properties.

Physicist Otto Lehmann, who reviewed Reinitzer’s work, noted that the sample provided by Reinitzer showed flowing crystals and also droplike crystals at the other end of the heating spectrum. Lehmann is credited with popularizing the term “liquid crystals” in the scientific community of the time.

Liquid crystal science virtually disappeared from scientific radar until an article by the future founder of Kent State University’s Liquid Crystal Institute, Glenn H. Brown, appeared in 1957. The article began renewed interest and inquiry into the properties and potential of the fourth state of matter.

In 1965, Brown’s work resulted in the creation of the Liquid Crystal Institute at Kent State. The institute was later named for Brown.

Liquid crystal research was gaining momentum in the late 1960s. Scientists were not only laboring to find inorganic uses for the phenomenon, but also honing in on a link between organic systems that exhibited liquid crystals in their structures, such as cell membranes.

Liquid crystal technology took a leap forward about this time when a scientist with television giant RCA discovered a use for them in displays. Kent State’s James Ferguson, who later became the associate director of the LCI, discovered the “twisted nematic field effect,” which essentially reorient light to make a display appear as intended. This effect revolutionized the displays on digital watches, which were initially light-emitting diodes or LEDs. Soon after, the timepiece market became dominated by liquid crystal units.

Ferguson left Kent State to become a pioneer in another area in which the university has become renowned – economic development spurred by technology transfer to small companies.

In 1968, Brown brought to Kent State another giant in the field — Alfred Saupe, a German physicist. Saupe, who stayed with the Liquid Crystal Institute (LCI) until his retirement in 1992, was widely considered one of the leading researchers in liquid crystals of the second half of the 20th century. Saupe continued to publish important work in the field up until his retirement, including significant work on polymer liquid crystal composites.

The impact of liquid crystal technology on the information display area has been vast. When the “bistable” principle of operation in display was discovered, it was learned that electric power is needed only when the information on the device needs to be changed, not for continuous operation. This allows for limited need for an electric current to power devices such as signage, hand-held instruments and e-books. The liquid crystal particles were discovered to be randomly dispersed, but became aligned, and stayed that way when the simple electric charge was applied.

It is this principle that is currently put into practice in the collaborative partnership with Cleveland Botanical Garden. In a research project, greenhouse windows were installed that can be switched via an electrical charge, from
Austrian Friedrich Reinitzer discovers liquid crystal effect in cholesterol derivative of carrots.

Clear to cloudy, depending on the sunlight needs of the plants inside.

Current research conducted at Kent State also is focusing on the next big breakthrough in the field: that of applications in flexible displays. Perhaps one day, television or computer screens will have the ability to wrap around the corner of a room, or be folded and put into a pocket.

Last fall, Kent Displays, a successful spin-off, installed a manufacturing machine that produces a composite of liquid crystals imbedded in flexible plastic, which could one day lead to bendable plastic television screens, computers and calculators.

Today the Liquid Crystal Institute is known as the largest and most comprehensive research, technology transfer and education program of its kind in the world. It is directly responsible for hundreds of jobs locally and plays a major role in the $100 billion international information display industry. The LCI recently was awarded, in partnership with Case Western Reserve University and Youngstown State University, more than $15.2 million to further the study of “soft matter,” as the science is sometimes known. The grant also funds two research scholars on the Kent Campus.

For more information, visit www.kent.edu/magazine.

1888 Austrian Friedrich Reinitzer discovers liquid crystal effect in cholesterol derivative of carrots.

1922 Frenchman George Friedel classifies basic types of liquid crystals, nematics and smectics.

1927 Soviet physicist Vsevolod Frederiks discovers reorientation of the nematic liquid crystal by the magnetic and then by electric fields, commonly known as the "Frederiks effect," which is at the heart of the modern liquid crystal display technologies.

1956 Glenn H. Brown and student write review of then-current literature on liquid crystals, "The Mesomorphic State" for Chemical Reviews, launching renewed interest in the phenomenon.

1960s Liquid crystal research focuses on link between structural organization of liquid crystals and biological systems and specifically on lyotropic liquid crystals.

1965 The Liquid Crystal Institute at Kent State University is founded.

1969 James Ferguson, while associate director of the Liquid Crystal Institute, discovered the twisted nematic field effect in liquid crystals, now superior to the earlier dynamic scattering liquid crystal display. Ferguson's discovery is now the basis for all LCD watches. The twisted nematic cell was the first commercially successful low-power, field operated liquid crystal display.

1971 Ferguson, who has since left Kent State to found International Liquid Crystal Company (ILXCO) in Kent, invents an improved display, based on the twisted nematic field. Later, LXD, a Cleveland company, is born from roots in ILXCO.

1970s Research begins into evaluating the relationship between biological functions and liquid crystal properties, liquid crystal use in displays is heavily favored over the biological subspecialty.

1986 Liquid Crystal Institute is renamed Glenn H. Brown Liquid Crystal Institute and moves into a new building.

1991 ALCOM, the Center for Advanced Liquid Crystaline Optical Materials, is formed, with a goal to provide an integrated, interdisciplinary approach to the understanding, design and production of liquid crystal-related products. It ceases to exist, by design, in 2002.

1993 LCI spin-off Kent Displays Inc. is founded.


1997 AlphaMicron Inc. founded, initially to develop switchable eyewear products for the U.S. Air Force.

2000 CoAdno Photonics launches, manufactures LC-based fiber optics switches for telecom giants such as Verizon.

2002 Collaboration begins between Department of Biological Sciences and Glenn H. Brown Liquid Crystal Institute to focus on biological applications of a specific kind of liquid crystals, lyotropic chromonic liquid crystals, to explore liquid crystal interaction with living cells. Bioassays for bioterror agents is one application being developed in this sub-specialty.

2007 Partnership with Cleveland Botanical Garden begins, resulting in 2008 launch of experimental greenhouse with liquid crystallized windows. FLEXmatters initiative is launched to support new and emerging businesses.

It's the pinnacle of the holiday shopping season, and stress levels are high. For many, time is running short, budgets are tight and tempers are flaring as they embark once again upon this most wonderful time of the retail-spending year.

Two consumers venture out to their local shopping mall. One will closely follow a predetermined checklist and stay within a carefully planned budget, and the other will amass a wallet full of receipts well beyond the family's financial means and face a new year filled with debilitating credit card debt.

What factors contribute to such differences in behavior? According to Dr. Paul J. Albanese, associate professor of marketing in Kent State's College of Business Administration, the answer lies in the individuals' contrasting levels of personality development.

In his book, The Personality Continuum and Consumer Behavior (http://personalitycontinuum.com), which encapsulates roughly 25 years of research on the subject, Albanese uses an interdisciplinary approach based in psychoanalytic object relations theory — a model in which the level of one's personality development depends on the quality of his or her interpersonal relationships — in order to examine consumer shopping behavior. Ranging from highest to lowest, each category — normal, neurotic, primitive or psychotic — is qualitatively different and reflects a specific pattern of behavior.

Though he began his career as a trained economist, Albanese credits frustration with his original doctoral dissertation for inspiring him to branch out and explore other fields of study, including psychology and sociology. This became the hallmark of the integrative framework he provides in his personality continuum. "When I was a doctoral student in economics, like any economist, I learned the concept of the rational economic man, and I didn't believe in it," Albanese says. "So I spent quite a long time studying psychology trying to demonstrate that it was not a good conception.

And then I had to come full circle and realize that it was a very good conception — limited, but very good. The rational consumer, from an economic point of view, would have a normal level of personality development."

For the most part, normal consumers are consistent and predictable. "People who are normal make plans, and they follow through on their plans. They're people who get on with their lives," Albanese says. "They're people who, if they make a commitment to you, they'll typically follow through. They have a lot of very good qualities as people, and as consumers."

Neurotic individuals, on the other hand, are ambivalent, indecisive and inhibited by feelings of guilt. According to Albanese, "Normal consumers spend less than they earn and save for future..."
Dr. Paul J. Albanese has spent 25 years researching the connection between personality development and consumer behavior.

Purchases they cannot afford, while neurotic shoppers spend an excessive amount of time shopping, often not buying anything. People arrested at the neurotic level of personality development tend mainly to be a pain to themselves, while those arrested at the lower, primitive level are a pain to everyone around them."

Under ordinary circumstances, neurotic shoppers may appear very similar to rational ones. "A person who is neurotic — which is actually a very high level of personality development — on really good days might seem as normal as anyone could be," Albanese says. "On really bad days, they could actually regress to a lower level of personality development and return to earlier patterns of behavior."

Albanese currently is working on a paper focusing on the darker side of consumer behavior, profiling compulsive buyers. He says much of the current literature confuses the true compulsive buyer, who is arrested at the primitive level of development, with someone at the psychotic level, who is personified in the extreme case by an individual with bipolar disorder.

"Compulsive buyers will go out and spend all the money they have and max out their credit cards. They do that periodically, in repetitive buying binges," Albanese says. "But that's very different from the manic episodes of someone with bipolar disorder. They could spend tens of thousands or hundreds of thousands of dollars in an afternoon, and then, at the end of it, they either require hospitalization or they're sometimes incarcerated."

What many marketers fail to understand is that not all consumers have achieved the normal level of personality development. "Typically when marketers do research, there's an implicit assumption that everyone they're using as research subjects is at the normal level," Albanese says. "And, unless they are at the normal level, their behavior might not be consistent," causing the research to be flawed.

Another common mistake in market research is using a snapshot of behavior at one specific point in time in an effort to understand buyers. "If you're looking at one point in time, just at the buying behavior, then there wouldn't really be any difference that a marketer could observe between someone who has bipolar disorder, someone at the primitive level of personality development who is a true compulsive buyer or someone at the higher neurotic level who is inconsistent from time to time," he says.

Ignoring these nuances could lead marketers to make incorrect assumptions about consumer motivation. According to Albanese, "Until you can see that there are qualitatively different patterns of behavior that represent these qualitatively different levels of personality development, I don't think you can really understand what motivates the consumer."

For more information, visit www.kent.edu/magazine.
In today’s technology-rich society, individuals are constantly bombarded with a plethora of information. Much of this data, however, can be confusing, contradictory, exaggerated or downright false.

As a result, it has become increasingly difficult for educators to prepare students to successfully decipher reliable information from fiction — a skill best known as data literacy. Kent State University’s Research Center for Educational Technology (RCET) is striving to provide relief.

“We are inundated with information on a daily basis, and it is not always easy to make sense of it all,” says Dr. Dale L. Cook, Summit Professor and director of RCET. “We believe students need to learn how to properly organize, interpret and understand data as part of their educational experience.”

RCET, established in 1998, is a national leader in the study of technology’s impact on teaching and learning. By utilizing its innovative AT&T Classroom, the center’s researchers simulate a ubiquitous computing environment — one equipped with a variety of digital technologies — to examine its overall impact on the educational experience.

Once findings have been gathered and interpreted, RCET shares its newfound knowledge with a variety of researchers, educators, practitioners and policy makers. This is done in an effort to improve teaching and learning in today’s classrooms and to better prepare educators to teach in ubiquitous computing environments of the future.

“RCET has come a very long way in a relatively short period of time — making it clear that persistence and determination do eventually pay off,” says Cook. “I never once doubted that we would become a national leader in our field.”

Members of Kent State University’s Research Center for Educational Technology (RCET) team, Drs. Mark Van’t Hooft (standing, left), Dale L. Cook, Karen Swan (seated, left) and Arnette Kratcoski, in front of a display on their “Thinking With Data” Web site.

‘Thinking With Data’

In January 2007, RCET began work on its most comprehensive instructional materials development project to date, “Thinking With Data.”

The endeavor, funded by a $1 million National Science Foundation (NSF) grant, is designed to cultivate a deep understanding of data literacy among middle-school students. It will be tested in two Ohio schools through August 2009.

Dr. Karen Swan, professor of instructional technology, is the principle investigator on the NSF grant and will oversee implementation of the Thinking With Data project.
“Data literacy involves using technology to collect, aggregate, manipulate, analyze and represent data from a variety of sources,” says Swan. “It is a particularly important skill in today’s world, but is not well-represented in most school curricula.”

To address this issue, Thinking With Data employs four, two-week interdisciplinary learning modules in social studies, mathematics, science and English language arts. The entire unit uses real-world information to address common data literacy skills.

“Our work on this unit is particularly important to our overall mission at RCET,” says Swan. “It adds to our knowledge of technology use in schools and will help in developing cross-curricular data literacy projects with teachers in our AT&T Classroom.”

The framework for Thinking With Data is world water issues. Specifically, the unit investigates the distribution and use of water in the Tigris-Euphrates watershed, as well as watersheds in the United States.

In the social studies module, students explore water availability and its current use. They then devise and defend fair ways of sharing the available resources.

To enhance the social studies segment, students learn and apply the techniques of proportional reasoning and data analysis to arguments they develop in the mathematics module.

Further exploration of data and analysis of potential Tigris-Euphrates watershed hypotheses take place in the science module. This information is then applied to U.S. water issues.

Finally, the English language arts module wraps up the unit. In this area, students develop persuasive arguments concerning U.S. water issues.

“Throughout the English language arts module, there is an explicit focus on making sense of information from a variety of media formats, as well as on communicating solutions and justifications using many of those same forms,” says Swan.

Integrating information

Overall, the goal of Thinking With Data is to provide students with the skills necessary to develop meaningful solutions using reliable data found in an information-saturated world.

Although data-based arguments often mean very different things in different disciplines, the interdisciplinary nature of this unit attempts to forego such differences — essentially attempting to showcase how differing perspectives can create real-world integrated solutions.

“Additionally, Thinking With Data integrates technology into classroom activities in meaningful ways — ways we believe can be a model for cross-curricular technology integration in the future,” says Swan.

The design, implementation and assessment of such innovative and comprehensive modules, as well as the creation of a Web site containing all of the unit’s materials, is an incredibly complex and tedious feat. Accordingly, it involves educators and researchers from throughout the university and the community.

Specifically, RCET researchers Annette Kratochki, Ph.D. ’92, and Mark Van’t Hooft, Ph.D. ’05, notably contributed to the design and implementation of the English language arts module and social studies module, respectively.

In the coming years, RCET hopes to use Thinking With Data research findings to support educators nationwide, as well as to ensure that schoolchildren throughout the country have the data literacy skills they need to succeed in a technology-driven and data-rich society.

“I am very proud of our progress thus far, as well as RCET’s reputation overall,” says Swan. “Examining how new and emerging technologies can amplify teaching and learning is very important to the future of education.”

RCET also hopes that future NSF grants will be available to support other critical technology-focused projects.

“To maintain credibility, it is our goal to continue to produce high-quality research in a variety of technology-based areas of study,” says Cook.

For more information, visit www.kent.edu/magazine.
The gnawing pain of a broken bone or itching caused by a post-surgery incision can become all-consuming for some individuals.

They go about daily activities — walking, sleeping, eating, working — but the continuous tingling or aching is an interruption, so much that diverting attention becomes impossible.

The injury or incision — the pain — is the focus. With acute pain, hope abounds: The broken bone will mend, and the incision will heal with time. But for individuals diagnosed with chronic noncancer pain, defined as the persistence of pain for more than six months, the light at the end of the tunnel can appear dim or sometimes nonexistent.

Dr. Wendy Lewandowski, assistant professor in Kent State University’s College of Nursing, spent the early part of her career in the community serving a variety of clients, which was when she became interested in people experiencing chronic noncancer pain.

Lewandowski explains that there are three types of pain: (1) Acute, or the kind of pain resulting from a broken leg; when the break heals, a person feels fine and the pain disappears; (2) terminal or cancer pain, which includes the terminally ill; and (3) noncancer chronic pain, which affects all of the people in the middle. Noncancer chronic pain can have varying etiologies, she says.

“I handled many referrals in home care for people with chronic pain who weren’t doing very well. They suffered from depression, and their functional status continued to go downhill,” Lewandowski says. “I worked with and introduced clients to complementary therapies to help them manage their pain, and one of the tools I utilized was guided imagery.”

Guided imagery is the use of one’s imagination to promote mental and physical health. The process can be self-directed, where individuals put themselves into a relaxed state and create their own images, or it can be directed by others. When directed by others, an individual completes exercises based on suggestions from a therapist or a video or audio tape.
Lewandowski continued using guided imagery during the next 17 years. Her dissertation was an intervention study testing the effectiveness or efficacy of guided imagery to decrease pain and empower individuals with chronic noncancer pain.

When she came to Kent State in 2002, she continued that program of study.

"One of the mechanisms by which guided imagery produces its effects is distraction, which is helpful with acute pain," she says. "People who live with chronic pain can use this as well, but the type of imagery we are using in this study helps clients focus on their pain and use sensory images to change their pain experience. It also helps persons experience emotions that may have been buried for a long time such as anger, guilt or sadness."

"Over time, suppressed (conscious) or repressed (unconscious) feelings can manifest as other symptoms like depression or pain," she says.

Lewandowski adds that research has shown, especially in the field of psychology, that chronic pain is multidimensional; many factors influence how individuals experience pain.

Lewandowski is the primary investigator for a team involved in a pilot study researching the effects of use of guided imagery with 25 chronic noncancer pain sufferers. The group consists of Lewandowski; Dr. Ann Jacobson, B.S.N. '79, professor in the College of Nursing; Dr. Richard Zeller, visiting professor in the college; Tom Alexander, Ph.D. '87, an immunologist with Summa Health Systems; Dr. Edward Covington, a pain specialist with the Cleveland Clinic; Judith Schena, Ph.D. '87, a psychologist with the Cleveland Clinic; and Karen Hung, a graduate assistant in the college.

The team received $70,000 from Summa-Kent State Center for the Treatment and Study of Traumatic Stress, the American Nurses Foundation and the university's Research Council, along with in-kind support from the College of Nursing.

Study participants were selected from two pain management centers, Cuyahoga Falls Community Hospital’s Pain Management Services and Akron General Medical Center Pain Management Services. Lewandowski says the study had numerous inclusion and exclusion criteria to make the design “tighter” because of biomarkers being measured.

The levels of such biomarkers as cortisol, neuroendocrine indicators and Interleukin-1 beta, the biomarker of neuroimmune function, used to measure or indicate the effects or progress of a disease or condition, were measured in participants through biweekly blood testing.

"People with chronic pain not only live with the stress of pain everyday, but they often lose their independence, financial security and significant others," she says. "We know that the stress of experiencing chronic pain produces a state of hypercortisolemia, or the chronic secretion of cortisol leading to elevated plasma cortisol levels, which causes harmful effects on the body." This can lead to poorer immune functioning, which is especially important to people with chronic pain because immune cells carry beta-endorphins, one of the body's natural mechanisms for modulating pain.

The study uncovers how guided imagery helps reduce the stress response and normalizes immune functioning, she says.

Participants answered questions every two weeks during the first month of the study about pain and its effect on their lives. The use of guided imagery on a CD developed by Lewandowski and Jane Erhman, a Cleveland-based hypnotherapist, was introduced at the end of the first four weeks. Clients were asked to use the imagery over the next eight weeks. Their pain and pain-related life interference were monitored every two weeks by Lewandowski and co-investigators.

"Usually people focus only on the physical aspects of their pain, but the technique helps them gain awareness of other factors that may be contributing to how they experience pain," she says.

"People with chronic pain often 'stuff' their feelings, which can contribute to pain and wear and tear on the body. When we teach participants about the guided imagery technique, we tell them that they may experience painful feelings. In fact, it's better to let yourself experience feelings then to suppress them."

The researchers are currently analyzing data from the study, Lewandowski says, and will use findings from the pilot study along with data from previous pilot studies to apply for a $1.5 million grant from the National Institute for Nursing Research to further study the effects of the therapy on chronic noncancer sufferers.

Lewandowski hopes the research impacts people who experience chronic pain in a way that makes them feel more empowered and less like they are at the sole mercy of medication.

"Complementary therapies are supposed to be utilized in addition to medication; I would never say use guided imagery and not take medication," she says. "But people using complementary therapies, I hope, will have more options of controlling their pain on a day-to-day basis. I think it can be really helpful."

For more information, visit www.kent.edu/magazine.
Kent State University is the lead institution on a $2 million Choose Ohio First scholarship program grant designed to train Northeast Ohio’s future biomedical and biotechnology workforce. The program funds a large number of scholarships for undergraduate students studying at all eight of the campuses in the Kent State system, as well as students at Cuyahoga Community College, Lakeland Community College, Lorain Community College and Stark State College of Technology.

The initiative addresses the needs of traditional and nontraditional students through such innovative educational initiatives as hands-on research experiences that integrate undergraduate and graduate education. Joint research projects will allow students to participate in Kent State’s nationally recognized biomedical research and develop their skills using cutting-edge technology.

Other initiatives build on Kent State University’s well-developed outreach programs that provide middle and high school students with access to science careers. These students will join the Ohio workforce with the academic preparation and science skills necessary for success in demanding careers in biotechnology and biomedicine that are a vital component of the economic growth of Ohio’s biotechnology industry.

The grant is led by Dr. Arne Gericke, professor of chemistry, and Dr. Diane Stroup, director of the biotechnology program. The funding is from the Ohio Innovation Partnership, which is designed to be Ohio’s premier model for recruiting and retaining more Ohio residents as students in science, technology, engineering, mathematics and medicine and is part of the 10-year master plan laid out by the University System of Ohio.

The Choose Ohio First scholarship program was one of three grants the state of Ohio announced in June for Kent State projects.

“This announcement is proof positive that Kent State has its eye on the future — the future needs of our students and our region,” says Kent State President Lester A. Lefton.

“It is further evidence of the state’s commitment to build upon a homegrown, solid foundation in our biomedical and biotechnology industries and our educational pipeline, to supply them with a prepared workforce.

“We are pleased to partner with the state of Ohio, local educational institutions and technology companies to serve our broader community through scholarship and economic development opportunities.”

For more information, visit www.kent.edu/magazine.
It’s a dove. It’s an eagle. No, it’s a chimney swift!
Small bird becomes symbol of research excellence at Kent State

Why is the quiet, somewhat nondescript chimney swift depicted on the Kent State University seal?

In the mid-'60s the university was envisioning its future as a research institution. The selection of the chimney swift to symbolize that newfound direction is a tribute to Dr. Ralph W. Dexter, emeritus professor of biological sciences, whose research on the chimney swift was so prominent, that the bird — which colonizes on the Kent Campus and appears to be in constant flight — was chosen to represent the research aspirations of Kent State on its newly designed seal in 1964.

Many remember Dexter as a man with qualities similar to the swift he was so passionate about. Dexter influenced many of his published on everything from marine life to earthworms and lobsters. But perhaps his most significant research at Kent State was conducted on the chimney swift.

Dr. Robert Heath, professor of biological sciences, sees the chimney swift as a model for Dexter's life.

"Docile, just like the chimney swift is docile, Dexter was a very ardent worker, from dawn until dusk," Heath says. "Ralph chose to work on chimney swifts because it was something he could do on the weekends and still do a credible research project."

During Dexter's time at Kent State, there was no research expectation for faculty.

"In Ralph's day, science was something that was almost done out of dilettante interest," Heath says. "Ralph was out of a different generation when scientists work on their own."

But Dexter wasn't always on his own. He often had his students helping him with research on the chimney swifts.

Emeritus Professor Lowell Orr, '56, was a student of Dexter's before being hired as an instructor at Kent State and working with him as a colleague. Orr remembers his time as a student helping Dexter with banding the chimney swifts on top of McGilvrey Hall.

"He got those of us who were students up on the roof to help him band the swifts and do research on them," Orr says. "That was a trip. It was an honor to be asked to go up on the roof and help him band."

As Cooke recollects, during the 1950s and '60s, Kent State President Robert White was convinced the university could become a research institution. With Glenn Brown's work with liquid crystals and the formation of the Liquid Crystal Institute, the university was ready to enhance its image and develop a new seal.

"The chimney swift would represent the university," Cooke says. "The swift was picked because Brown couldn't figure out how to put liquid crystal on it [the seal]. The seal would symbolize the research arm of the university."

Heath says the swifts nest in chimneys, are easy to handle and work well with people. The birds are also very hard working. The bird "flies all day long and it was thought it would be a good model for the university seal," he says.

Through the decades, research on liquid crystals has eclipsed that of chimney swifts, but the bird remains an apt symbol of the university’s leadership in research and a fitting tribute to Ralph Dexter, who, for 45 years, taught and involved his students hands-on in his prolific research.

For more information about Kent State's upcoming Centennial Celebration, follow the links at www.kent.edu/magazine.
Instant Expression OMG
Generation Y develops language standards through instant messaging

Jessica Heffner, who will graduate from Kent State in May 2009 with degrees in English and history, has come of age in a world where electronic technology is omnipresent. Members of her generation have never lived without computers, cell phones or e-mail in their communications arsenals.

Like many young people, she often uses these tools to converse with her friends. She was introduced to instant messaging, or IM, when she was in the eighth grade, with nightly gossip sessions and weekend slumber party conferences.

While schedule conflicts make it difficult to instant message now, Heffner admits that she’s still more likely to keep in touch with high school contacts via the social networking Web site Facebook than by picking up the telephone.

The language that Heffner and her peers use to communicate in these messages, sometimes in abbreviated text such as OMG, TTYL or LOL — letter groupings that may seem foreign to those who remember a time when stamped mail was still the easiest way to reach out to someone on the other side of the country — is the subject of new research being conducted by Drs. Pamela Takayoshi and Christina Haas, both associate professors of English at Kent State University.

With support from the Department of English, the Faculty Professional Development Center and the National Council of Teachers of English, the researchers have discovered that, far from being simply bad grammar, a complaint often launched against it, instant messaging is actually a specific language variety, or register, different from formal English, with a unique set of language features, conventions and standards.

Instant messaging differs from e-mail in that it offers real-time communication between two or more people on the Internet. Users post messages for individuals who are
simultaneously online and can respond immediately, resulting in dialogue versus one-way communication.

The practice is especially popular among teenagers and people under the age of 30. According to a 2007 Associated Press-America Online trend survey, 70 percent of teens now send more instant messages than e-mails.

Using instant messaging conversations produced by college students, Takayoshi and Haas are identifying the places where writers use language features that vary from standard written English. They are finding that what look like nonstandard features of written language are, actually, the standardized features of the instant messaging language variety.

The language was discovered to be informal, explicit and playful. Instant messaging is both abbreviated and elaborated, with an emphasis on meaning over form and social relationships over content.

According to Haas, “We thought it would be more conventionalized than people imagined, but we did not expect such a robust set of features.”

The two are working with a team of four undergraduate researchers, including Heffner, who help not only in collecting and organizing the data, but also researching and analyzing information, developing coding categories and even writing articles. “The undergrads allowed us to check our outsider interpretations against those who know the technologies better,” Takayoshi says. “They expanded the project’s scope and understanding in ways we maybe wouldn’t have thought.”

For Heffner, the opportunity to participate in a research project as an undergraduate student has been an invaluable part of her educational experience. She feels that, through the project, she has learned how to analyze information critically and formulate her own ideas, rather than relying purely on those she reads in textbooks.

“This is the first time I have felt that the work I do directly benefits me, my career and my life goals,” she says. “I wish that all of my classmates had an undergraduate experience like I have. Besides the work, besides the data, the mentoring has been the most enriching part of the project. I feel I have people with real-world experience in my corner.”

To Drs. Christina Haas and Pamela Takayoshi, the popularity of technologies such as instant messaging, blogs and Facebook point to the vitality of writing among young people.

To those who might quarrel that instant messaging and similar technologies point to the death of traditional writing, the researchers argue these critics have the story backward. “When we look at the kinds of technology young people are using today, we see that many of those technologies — IM, blogs and Facebook — are writing technologies,” Haas says. “Even the phone is used for writing now!”

Heffner thinks it’s important to view the modifications as part of the natural evolution of language. “Users of a language should feel free to express their ideas in ways that are relevant to them,” she says. “Teenagers now write every day. They can’t wait to get home and on the computer to share their ideas in their latest blog entry. They are willingly writing for personal expression.

“Language is a tool of the people who use it. Language is meant to evolve, grow and incorporate. As people change, a language must change with them or become obsolete. People will always find ways to express themselves and, when need be, they will create the medium to do so.”

It’s this enthusiasm for expression that suggests a hearty outlook for the future of writing, says Takayoshi. “We believe that technologies such as IM are evidence of the vitality and health of the English language, and writing in particular. Our project suggests that innovative, playful, systematic and vital language use is alive and well on the Internet and in the lives of the young people who use it.”

For more information, visit www.kent.edu/magazine.
By Scott Rainone

Attitudes of Gratitude
Expressive writing shown to improve health, happiness

If someone told you they had found a quick and easy way to increase your happiness and satisfaction today, what would you think?

Hint: It doesn’t involve picking up the latest iPhone, driving off the lot in a new Porsche Boxster Spyder or getting your hands on the latest and greatest weight-loss pill. In fact, it’s not a new invention or discovery at all.

Dr. Steven Toepfer, assistant professor of family and consumer studies at the Kent State Salem Campus, says it’s something that may have been available to mankind since ink first appeared in Egypt more than 4,000 years ago — expressive writing.

"Everyone is pursuing the American dream. We are wealthier than previous generations, consuming more and experiencing more, but yet so many of us are so unhappy," Toepfer says. "The question of 'is there something simple we can do to be happier?' is one that I have been thinking about for many years and one that has interested people for much longer."

With that question in mind, Toepfer enlisted students from six courses on the university’s Salem, Kent and Stark campuses to explore the effects of writing letters of gratitude to people who had positively impacted the students’ lives. The assignment, which involved Toepfer's co-author Dr. Kathy Walker, assistant professor of family and consumer studies at the Kent Campus, seemed simple enough.

Over the course of a six-week period, students wrote one letter every two weeks with the simple ground rules that it had to be positively expressive, required some insight and reflection, was nontrivial and contained a high level of appreciation or gratitude. The letters could not be just a simple thank-you note for a gift. After each letter, students completed a survey to gauge their moods, satisfaction with life and feelings of gratitude and happiness.

“I saw their happiness increase after each letter, meaning the more they wrote, the better they felt,” says Toepfer, who also witnessed improvement in participants’ life satisfaction and gratitude throughout the study. “The most powerful thing in our lives is our social network. It doesn’t have to be large, and you don’t always need to be the life of the party, but just having one or two significant connections in your life has shown to have terrific psychological and physical benefits.”

The letter-writing campaign, which involved 85 students, gave the participants the opportunity to regularly slow down in the ever-increasing stressful and distracting world “to think about the people who have made our lives meaningful.” The majority of students participating in the study wrote to former teachers, parents and significant others.

“The feedback was great. The students remarked that [writing the letters] was a fantastic experience and allowed them to reconnect with the people who mean a lot to them,” Toepfer says. “Out of the 85 participants, only one person said they absolutely hated doing it.”

In all, 75 percent said they planned to continue to write letters of gratitude even when the course was over.

On average, students spent from 10 to 15 minutes writing each letter, which Toepfer says supports his belief that a little investment in gratitude can reap large dividends in happiness and satisfaction. Studies demonstrate, according to Toepfer, that practicing expressive writing is often associated with fewer health problems, decreased depression, an improved immune system and improved grades.

“We are all walking around with an amazing resource: gratitude,” says Toepfer. “It helps us express and enjoy, appreciate, be thankful and satisfied with a little effort. We all have it, and we need to use it to improve our enjoyment from life.”

For more information, visit www.kent.edu/magazine.
Cathy D. Hemming, '70

Cathy Hemming started out working in a bookstore during graduate school more than 30 years ago, which led to a career in the book industry and her climb to the ranks of president and publisher of Harper Collins. She recently started her own company, Cathy D. Hemming Literary Agency LLC, representing clients including *New York Times* bestselling authors Nancy Tillman, Dr. Zhi Gang Sha, Laura Duksta and Karen Keesler. She credits her liberal arts education at Kent State for giving her the underpinning necessary to lead a major publishing firm. She stays involved with the university by serving as an officer on the Foundation Board.

What Kent State means to me
Kent State opened my world. It was a foundation for life that shaped me in a way no other experience has.

Most significant life accomplishment
I have been fortunate to publish and nurture some of the most gifted writers in America.

Favorite Kent State memories
Pranks we pulled in Stopher, Johnson and Lake halls. The political activism on campus.

Greatest lesson learned at Kent State
Leadership skills. In my student government positions, I learned how to get people to do what I wanted them to do, essential for honing the art of managing creative people.

Why I joined the Alumni Association
I care about Kent State and I care about its quality. I want it to be a great university.

Members support programs that:
- Build and sustain lifelong relationships;
- Encourage learning and professional growth;
- Celebrate the successes of alumni, faculty and students;
- Share the excitement of university accomplishments.

www.ksualumni.org
Fire and Ice

Alumna's research focuses on geologic extremes

Kristen LaMoreaux at Mount Edziza, British Columbia, Canada.

What kind of effect do volcanoes and ice in British Columbia have on us? A large one, according to Kristen LaMoreaux, '02. She studied magma and lava/ice interactions in Canada as part of her field research. She also focused on trachyte, an igneous, volcanic rock.

"There wasn't much research in trachyte," she says. "Anything I did was going to be important."

While in Canada, LaMoreaux looked at ice sheets to help to reconstruct where the sheets may have previously been. This was part of her research while pursuing a Master of Science degree in volcanology from the University of Pittsburgh. She looked at trachyte eruptions that may have erupted beneath regional ice sheets in British Columbia.

"Obviously climate change is a super hot topic right now," she says. "We can construct climate change more accurately. It gives you a relative idea of climate."

LaMoreaux's interest in research started while she was an undergraduate at Kent State. She took an interest in remote sensing, along with hard rock geology, and really liked it. Although she didn't do any research while obtaining her geology degree from Kent State, she says her degree was so solid that it made getting her master's degree that much easier.

"I found that my degree was of such a good quality and so broad with so many different kinds of geology that it made my foundation really solid," she says. "I really noticed the difference with my undergrad degree from Kent State."

While LaMoreaux's research could travel all the way to Mars, it can also be used on a smaller scale. The ice sheet she studied was believed to have covered most of western Canada. She has also seen this lava/ice contact in places like the western United States.

"The more we understand, the more we can apply it to other places that we may not be able to get to for awhile," LaMoreaux says. "If we start to identify the features here on earth, we could identify them on Mars and tell more about what's going on there. Mars is a hot topic for anyone who is interested in space exploration."
Shirley J. (Reiter) Beck, Ashland, Ohio, is retired from teaching at Hillsdale Schools and is now employed as a Christian education coordinator at Peace Lutheran Church. Donald G. Di Sanza, Independence, Ohio, is retired as an Ohio school teacher with more than 32 years teaching and 18 years of coaching. DiSanza is currently working in graphics production for Sun Newspaper in Valley View, Ohio. Richard S. Germana, Sylvania, Ohio, is the owner/illustrator of Architectural Renderings by Germana and was a recipient of the Home Builders Association of Greater Toledo 2007 Sales and Marketing Awards in the categories of Black and White Architectural Rendering of the Year and Color Architectural Rendering, over $500,000, of the Year. James F. Kaserman, Fort Myers, Fla., along with his wife Sarah Jane, has published a book and teaches a course on the history of pirates in Southwest Florida. Another historical fiction will be released this year. Diana J. Maselli, Warren, Ohio, is retired from teaching in Niles City Schools and now teaches English at Youngstown State. Carolyn E. Morrow, Chardon, Ohio, is retired after 24 years as a social worker at the University Hospital System and currently works as a PRN for Geauga Regional Hospital.

Donald V. DeRosa, M.A. ’05, Ph.D. ’07, Stockton, Calif., will be retiring in 2009 as president of University of the Pacific in Stockton, Calif. Michael E. Fay, Lisbon, Ohio, is the director of communications for Smithers Scientific Services and is the founding editor of Smithers Report, a daily news digest of activities in the worldwide tire industry. Richard D. Heilman, Berea, Ohio, is retired after 35 years as a reporter and columnist for Sun Newspapers. Donna J. (Matelock) Schmidt, Nags Head, N.C., is a retired freelance food writer.

Jeanette L. (Spelman) Abell, M.A. ’91, Kent, Ohio, is retired from teaching the GRADS Program at Kent City Schools. Abell is now the discipleship coordinator for Blessings of Summit and Portage Counties Inc. This is a program providing child care money to high school students who are parents. Esta B. Doerres, M.Ed., New Philadelphia, Ohio, is retired and a board member and volunteer at Tuscarawas County Friends of the Homeless. Doerres teaches in a G.E.D. program at Buckeye Career Center. George F. Green, Acworth, Ga., is a professor at Kennesaw State University. Green retired from General Electric with 35 years of service. Larry C. White, Hammond, La., is recently retired from practicing psychology in Louisiana and assistant professor at the University of Nebraska at Kearney and Alfred University in New York state. Harry P. Wu, M.I.S., Port Huron, Mich., will have his biography listed in the 62nd edition of Marquis Who’s Who in America and in the 26th edition of Marquis Who’s Who in the World.

Karen Bauser, Virginia Beach, Va., is a self-employed illustrator and journalist. C. Cebulski, M.A. ’85, Lakeland, Fla., is a senior academic advisor for the University of South Florida. Cebulski was formerly the dean at Kent State East Liverpool. He also taught at West Liberty State College in West Virginia and at Cleveland State University. Os is active in S.P.C.A. of Polk County and volunteers in service to the elderly. James W. Eaton, M.A. ’67, Ph.D. ’67, Rittman, Ohio, is retired from careers in college teaching, preaching, sales and journalism. Eaton is now substitute teaching in Wayne County. Cynthia G. (Titon) Fifer, Wooster, Ohio, is the owner of Parsley Hollow Inc., which manufactures all-natural, organic pet gromming products. Barry S. Lubetkin, M.A. ’67, Ph.D. ’68, New York, N.Y., is the director for the Institute of Behavioral Therapy, the past president for the American Board of Behavioral Psychology and has had guest appearances on television programs such as Oprah. Craig H. Lucas, M.F.A. ’76, Kent, Ohio, was honored for lifetime achievement as part of the Cleveland Arts Prize celebration. Thomas Parthenakis, M.A. ’67, Ph.D. ’85, Erie, Pa., is retired from Gannon University and is enrolled at St. Vladimir’s Orthodox Theological Seminary in Crestwood, N.Y., in the master’s in theology department program. Robert A. Wilkerson, M.Ed., Poland, Ohio, is retired from teaching history at the Poland Local School System.

Santo A. Regalbuto, Ontario, Calif., is the instructor and leader of a music group called Gibson Harmonicchoir. Regalbuto was a coast guard search and rescue pilot and also worked as a management consultant. He also works as a SCORE volunteer.

Ronald Q. Lewton, Sun City West, Ariz., is a retired managing editor and is now doing volunteer work for Lifelong Learning and the West Valley Art Museum.

Barbara A. Cope, Shelby, Mich., is a retired missionary teacher on the Navajo reservation.

Buck Reese, Canfield, Ohio, is a retired pilot from the U.S. Air Force and is also retired from Commercial Intersitech as their international sales manager.

Carol M. (Levens) Clapp, Hoven, S.D., is a high school English teacher for Hoven Schools after seven years of teaching in Southeast Asia. Bob Lade, Batavia, Ohio, is retired from Ford Motor Company after 33 years. Lade is a collector of auto license plates worldwide.

Tom Litwiller, Allison Park, Pa., recently received an honorary doctor of public service from Alderson-Broaddus College where he was a trustee. Litwiller worked for General Electric and most recently retired from Westinghouse Electric Corporation. He was the director of the Kent State Alumni Association from 1985-1992 and its president from 1991-1992.

Philip L. Rader, Creston, Calif., is a building inspector for Monterey County. Rader tested the first space shuttle’s solid rocket booster in 1962.

Andrew R. Holko, Bristolville, Ohio, served in the U.S. Air Force for more than 27 years and is now retired. Holko is the owner of Holko’s Hilltop Tree Farm. Margaret E. Stevens, M.Ed., Ventura, Calif., is a retired English teacher.

Roger T. Mallory, M.P.A. ’89, Columbus, Ohio, is a retired criminal justice planning specialist for the state of Ohio and is an active collector of farm toys and attends farm toy shows throughout the state of Ohio. David L. Prior, Battle Creek, Mich., is retired from Chesapeake Corporation after 40 years in packaging.

Judith A. (Schill) Brown, Pompano Beach, Fla., is a retired curriculum specialist for Broward County School District. Brown taught for 30 years.

Martha J. Cook, M.Ed., East Sparta, Ohio, is a professor at Malone College and has published a book titled Grauman Toward Professionalism, which is now on the market for college students.

Sarah J. (Chenot) Kaserman, M.Ed. ’85, Fort Myers, Fla., along with her husband James, has published a book and teaches a course on the history of pirates in Southwest Florida. Another historical fiction novel will be released this year. Dottie (Samuelson) Stover, Warren, Ohio, is a retired kindergarten teacher after teaching for more than 30 years.

Karen K. (Stein) Block, Pittsburgh, Pa., is retired from the Department of Psychology in Education at the University of Pittsburgh. She has been reappointed as instructor of statistics in the Department of Statistics. Block also operates an educational horse farm. Sally R. (Shirey) King, Berea, Ohio, is a supervisor at Baldwin-Wallace College. King is also the writer of the Dateline Berea column for Sun Newspapers.

Alumni Association Annual Member Life Member
Social Greek organizations have existed on college campuses for more than 100 years. Kent State, like many colleges, experienced the highest levels of student involvement during the 1950s and early 60s.

Greek Life continues to be a vital social force on campus, as fraternities and sororities sponsor a variety of events throughout the year, participate in community and campus activities and provide students an opportunity to grow and develop leadership skills.

Alumni e-mail accounts moving to Google

This fall, Kent State will replace the FlashMail e-mail system with Google e-mail. The change will result in several benefits, including increased file storage; built-in chat, calendaring and search; and an easy-to-use interface. E-mail addresses will not change.

All alumni who continue to use their @kent.edu FlashMail addresses will be migrated to the Google service by the end of December. However, you are encouraged to move your account now by visiting http://google.kent.edu and following the instructions there. Questions can be directed to the Kent State University Helpdesk at helpdesk@kent.edu or 330-672-HELP.
Jackie (Washburn) Hillyer, Ashtabula, Ohio, is president of the Ohio National Organization for Women and was recently elected president of the Buckeye Board of Education. Ronald J. Hudak, M.Ed., Parma, Ohio, is retired from the Cleveland Municipal School District. Dart S. Marvin, Ashtabula, Ohio, is an office worker/program aide at the Ashtabula Homeless Shelter. Marvin is authoring a 15-volume book Adventures in Music through the Baroque C-Signora Descant Recorder. Marty (McClatchie) Sladek, Downingtown, Ill., is the owner/attorney for "Speaking of Work" which deals with work and women's issues.

Bill Foulk, Clinton, Ohio, is a 4th grade teacher for OHDELA. Foulk was selected as the 2007-2008 "Great Teacher" from the White Hat's group. Jo Anne Gorkowski, Brunswick, Ohio, is retired from Parma City Schools. Ryan A. Hetzer, Fairfield, Ohio, is retired after 37 years of service as a United Methodist pastor and is currently serving as part-time pastor. Rich Hollenbaugh, J.D., Columbus, Ohio, is a partner at the law firm of Carlisle Patchen and Murphy LLP, has been elected as the vice president of the Ohio Legal Assistance Foundation Board and has been appointed by the Franklin County Commissioners to the Central Ohio Workforce Investment Board of Directors. Betty N. Lendway, Tallahassee, Fla., is an instructor at Florida State University and Florida Agricultural and Mechanical University after 32 years with Florida Family and Children's Services. Catherine I. (Williams) Sibley, Kent, Ohio, is a singer and music teacher. Sibley is currently singing with the Akron Symphony Chorus and was also selected to sing in the Akron Symphony Chamber Choir. Albert E. Williams, M.Ed., Reminderville, Ohio, is retired from Mentor Public Schools and is in his 11th year as a councilperson for Reminderville Village. In the past, Williams has served as council president, represented the mayor at meetings and chaired numerous committees as well as working with the seniors of the village. Joan S. (Sheets) Woolf, Norwich, Ohio, is a retired assistant professor of nursing from Ohio University.

Cindy (Wallburn) Jarrett, Ravenna, Ohio, is retired after 30 years of service at Southeast High School. Jarrett is currently a substitute teacher at Southeast and working as a part-time secretary at her church. Lynne J. Muzik, M.Ed. '70, Chagrin Falls, Ohio, is retired from Cardinal Local School District after 37 years as a teacher and administrator. Muzik is now a real estate agent with the Chagrin Falls office of Howard Hanna Real Estate Services. Linda Rion-Waldock, B.S. '72, Fort Myers, Fla., is retired. Waldock worked as a social worker in Cleveland; worked at Elizabeth Tabor Public Library in Marion, Mass.; taught remedial English to servicemen in Germany; was a librarian at Cleveland Public Schools and Firelands High School, and volunteered for the Red Cross in the Armed Forces Emergency Services in Florida. Ralph I. Solomitz, Cleveland, is the president of Ralph Stuff, which produces custom illustrations. Charles F. Weber, Stuart, Va., is a retired probation supervisor with more than 30 years of service with the Commonwealth of Virginia, Department of Juvenile Justice.

Gary L. Brewer, M.Ed., Pompano Beach, Fla., is a life member of the American Football Coaches Association. Liedith E. (Eisenberg) Heid, M.Ed. '71, Akron, Ohio, is an adjunct instructor at the University of Akron in the Department of Curricular and Instructional Studies. Heid was a four time "team in training" participant and a century bicycle rider for the Leukemia and Lymphoma Society. Raymond J. Klavon, Pittsburgh, Pa., owns and operates an antique ice cream parlor. James I. O'Connor, M.A., Bronx, N.Y., is a playwright and won the Joseph Jefferson citation for "Outstanding New Work" for his play Rosemary. Ann M. Roher, Akron, Ohio, is a self-employed author and has recently published Mr. Picky and Me: Lessons from a Master Chickadee. Rhoda L. Thomasson, Northfield, Ohio, is a retired social worker from Park West Associates.

Richard C. Conrath, M.Ed. ’72, Ph.D. ’78, Bonita Springs, Fla., is retired as assistant professor of educational leadership at Saint Leo University. Conrath is now president of Conrath Group Inc., a management consultant group. Diane L. Davies, Niles, Ohio, is recently retired after 35 years as an elementary teacher in Warren City Schools. Robert G. Glaser, M.A. ’72, Ph.D. ’74, Meanville, Ohio, recently authored a textbook titled Strategic Practice Management: A Patient-Centric Approach. Glaser is an audiologist in private practice and is the past president of the American Academy of Audiology and also served two terms as chairman of the Ohio Board of Speech-Language Pathology and Audiology. Dolores E. Knoer, M.Ed., Canton, Ohio, is the chair of the Department of Music at Massillon Baptist College. Knoer is also serving as the president of MacDowell Music Club of Canton, Ohio. Donald J. Masarak, Wadsworth, Ohio, is a retired air traffic controller from the Akron Canton Airport and is currently an adjunct professor in the Kent State Department of Aeronautics. Neil Moore, Fort Wayne, Ind., was appointed by Indiana Governor Mitch Daniels to serve as the executive director of the Indiana Criminal Justice Institute after serving as chief of police in Fort Wayne, Ind., for nine years. David M. Stotler, Atwater, Ohio, is a retired music teacher for Garfield Local Schools and retired from the Ohio Army National Guard with 37 years of service and rank of lieutenant colonel. Stotler now grows apples for Stotler’s Orchards in Randolph, Ohio. Kathy (Jancsura) Tabor, Northfield, Ohio, is a retired teacher in Maple Heights, Ohio, and is now the Northern Ohio educational representative for the Steck-Vaughn and Saxon programs for HMH. Cathy F. (Pultz) Telzrow, Ed.S. ’74, M.Ed. ’74, Hudson, Ohio, was recently awarded the National Association of School
Congratulations, Greg Ward!

Greg Ward, ’77, was the winner of our member drawing for the FirstMerit Patriot Bowl prize package.

As a member of the alumni association, Greg enjoys many benefits:

- Stays connected to the university and other alumni;
- supports his alma mater and the Kent State community; and
- shares in the excitement of student and alumni successes.

Go to www.ksualumni.org and check out all the member benefits!

Kent State University Alumni Association
www.ksualumni.org
(Adams) Lamborn, White House, Tenn., is an account consultant for the Hartford/SRS. Jill (Adams) Mitan, Northridge, Calif., is the owner and winemaker of Midwife Crisis Winery in Paso Robles, Calif. Marsh A. Perry, Pickerington, Ohio, is a retired educator and is now a realtor with Century 21, Joe Walker and Associates.

Judith A. (Falkenburg) Collins, Plant City, Fla., is retired after 20 years of service as payroll manager at Lakeland Regional Medical Center. Collins currently breeds and raises quarter horses. Patrick J. Keating, Hudson, Ohio, has been named president-elect of the Buckingham, Doolittle and Burroughs, LLP office. William H. Kendrick, M.M., Canton, Ohio, is the parish musician (organ/choirmaster) for St. Paul’s Episcopal Church in Canton, Ohio. Part-time faculty at University of Akron School of Music, keyboardist for Silver Strings Trio and a member of Canton Symphony Orchestra Chorus. Kendrick is retired from Perry (Stark) Local Schools. Thomas H. Redding, M.A., Wadsworth, Ohio, is recently retired after 35 years in public education at Akron Public Schools. John M. Wronkowski, M.B.A. ’85, Hudson, Ohio, is currently retired from Goodyear as a director of IT and is now employed as a CPA with Rea and Associates in New Philadelphia, Ohio.

Scott A. Bonn, Ph.D., Chatham, N.J., is a professor at Drew University in Madison, N.J. Cynthia A. (Pelyak) Brunner, M.Ed., North Canton, Ohio, is the director of field placement in the education division at Walsh University. Thomas P. Frisina, North Royalton, Ohio, founded DocClarity, a software as a service entity that provides Web-hosted enterprise content management solutions for the commercial real estate industry. Rich Garcia, Shaker Heights, Ohio, is a retired chief financial officer and recently received the Roger T. Beilte Distinguished Former Student Award from Kent State Ashtabula. Garcia also received the Cain’s Cleveland Business Chief Financial Officer of the Year award.

Morteza Noorbakhsh, M.A. ’79, M.A. ’80, Vienna, Va., is an architect/project manager of the Department of Veterans in Washington, D.C. Camille A. (Rupert) Remus, Franklin, Mass., has been promoted to assistant vice president/compliance officer/senior audit officer for Benjamin Franklin Bank. Barbara L. (Latona) Samson, M.Ed., Mentor, Ohio, teaches developmental reading for Mentor Public Schools and is a licensed Brain Gym instructor/consultant offering Brain Gym 101 through Notre Dame College of Ohio. Cindy L. (Diehl) Schroeder, Savannah, Ga., is an English teacher for Savannah/Chatham Schools. She has moved into an international baccalaureate program for advanced 12th graders and also teaches in the Georgia Southern University “High School to College” program. Nancy E. (Wilson) Whitmore, Kent, Ohio, has been promoted to local print and online sales director for the Akron Beacon Journal.

Mary L. Cabella, J.D., Cleveland, Ohio, has joined the Ohio State Bar Foundation’s 2008 Fellows Class. Dave Winn, Erie, Pa., celebrates 15 years as president of Information Strategies Plus, a technology consulting firm. Kevin D. Young, Lakewood, Ohio, has become a partner in Centraband Music Group and In2uneMusic.

Daniel P. Clements, Shaker Heights, Ohio, is serving as project architect for URS Corp. since 1991. Laura S. (Stupp) Goddard, Fayetteville, N.C., is a graphic designer for Veritas, published by USAOC History Office. Susan D. Novak, Warren, Ohio, is a TV journalist and Healthy Living anchor for WFMJ-TV in Youngstown, Ohio. Terrence E. O’Neal, New York City, N.Y., has been elected to a three-year term as regional director New York on the Board of Directors of the American Institute of Architects. Deborah L. (Ross) Reaves, Ph.D., Winston Salem, N.C., is a retired clinical psychologist for Newton Public Schools and is on the Senior Services Board of Trustees, the Salvation Army Board, the Women’s Executive Council, the Women’s Fund of Winston-Salem and the Maya Angelou Institute for the Improvement of Child and Family Education Board. Ruth Ellen E. (Adamson) Wolfgang, Ashtabula, Ohio, is a piano teacher and has a typing service. She is also writing a Christian book with her husband and is co-owner of Audio Video Service.

Virginia Audet, M.L.S., Brighton, Mass., is a librarian at Newton Free Library and has a special interest in genealogy and family history. Deanne A. Nettles, Baltimore, Md., is an art director for Deanne Nettles Associates and has started her own advertising/graphic design studio. Mike Pagan, M.A. ’85, Lees Summit, Mo., is the assistant director of jazz studies for the University of Missouri Kansas City Conservatory of Music and Dance in Kansas City. Pagan was a guest alumni composer at the Hugh A. Glauser School of Music and recently had his 10th musical composition published. Charles A. Polizzi, North Royalton, Ohio, is a merchandise manager at JCPenney. Polizzi is also the president of the Royalton Players where he has directed more than 10 productions.

Debbie (Illes) Ann, Lyndhurst, Ohio, is the museum store manager for the Holden Arboretum in Kirtland, Ohio. Glenda A. (Bailey) Betteridge, Conneaut, Ohio, is an English teacher for Conneaut Area City Schools. Anthony R. Mitri, San Diego, Calif., is a self-employed artist whose work is represented by Forum Gallery in New York City, N.Y. Catherine M. (Knieck) Grovets, Cleveland, Ohio, was recognized by University Hospitals/Case Institute as “Nurse of the Year” for excellence in Oncology Nursing at the Ireland Cancer Center and has received an award for 25 years of service. Sam Roe, Toledo, Ohio, is a projects team reporter/writer and a Metro-Politzer Prize winner. Curtis E. Smock, Parma, Ohio, started Ceo Design in 2003 with partner Dave Molnar.

William P. Bryan, M.B.A. ’88, Massillon, Ohio, is the director for supply chain and supply chain economics for The Timken Company’s Steel Group after returning from Europe where he was director of automotive order fulfillment and European supply chain. Sherrie M. Dunleavy, Wheeling, W.Va., hosts a radio talk show for women called The Broadcast on WKOX-AM 1600. Julie A. (Koibl) Frankl, Wooster, Ohio, is a principal at Wooster City Schools. Sandra J. (Nace) Layman, B.S. ’84, Mogadore, Ohio, has numerous publications including scores, books, recordings and motion pictures. Karen A. Luces, B.S. ’90, Seville, Ohio, is a village clerk-treasurer for the Village of Seville. Lucas was able to advance her career to a master municipal clerk with the International Institute of Municipal Clerks at Kent State. Kriss A. Pettersen, Hingham, Mass., is the project manager for the Beth Israel Daoscon Medical Center Tenant Fit-Out at the Center for Life Sciences project for a Payette architectural firm.

Carol L. Bartelet, Dunnellon, Fla., is a school nurse for the Marion County Health Department and has published a book, Flavors. Her second book will be published soon. Matthew K. McGowan, M.B.A., Chillicothe, Ill., is an associate professor and chair at Bradley University. McGowan is also chair for the Department of Business Management and Administration in Bradley University’s Foster College of Business Administration. Richard W. Palermo, Dumfries, Va., is recently retired from the Marine Corps and now works as a defense consultant supporting the Deputy Secretary of Defense for Information and Identity Assurance. John H. Whitmore, Cedarville, Ohio, is an associate professor of geology at Cedarville University. Randy Wood, North Ridgerville, Ohio, has his own business doing freelance custom publishing called Black Cat Creative Services.

Cindy L. Hazelzet, Ravenna, Ohio, is a biologist at Portage County Water Resources and also volunteers as president/founder of Northeast Ohio Shetland Sheepdog Rescue. Lucia S. Janoch, Broadview Heights, Ohio, is a credit officer for Key Bank and received a paralegal certificate from Cuyahoga Community College. Kimberly C. Reese, North Royalton, Ohio, is a clinical nurse at MetroHealth Surgery Center. Reese is a certified operating room nurse, competence and credentialing champion and a member of the Association of Perioperative Registered Nurses. Lauretta M. Schott, Bryant, Ind., is the artistic director for
Dorothea C. (Bowen) Dingle, M.Ed. ’91, Akron, Ohio, a 15 year education veteran, has been named Akron Public Schools 2007-2008 Teacher of the Year. Arthur L. Thomas, M.A., Lakewood, Ohio, is a teacher, producer and director at St. Ignatius High School. Barbara J. Wuthree, M.Ed., Ravenna, Ohio, is a vocational evaluator for Edwin Shaw Rehab at Akron General Medical Center. Wuthree also performs in swing and old time bands and teaches various instruments. Chas Wuthers, Lakewood, Ohio, who was previously a senior managing director and named to the executive committee and board of directors for Dix and Eaton, has now been appointed president of the firm.

Bertice B. Berry, Ph.D., Richmond Hill, Ga., previously taught sociology and statistics at Kent State. Berry is an award-winning entertainer, lecturer and comedienne. She has been the host and co-executive producer of her own nationally syndicated talk show The Bertice Berry Show and has appeared on numerous television programs. James W. McCargar, Ph.D., Wadsworth, Ohio, has been named an associate vice president at Baldwin-Wallace College.

Steven M. Adelman, Norwalk, Ohio, is currently the vice president of American Timber and Steel Corp. Barbara J. Breeden, M.Ed., Hudson, Ohio, is the program director for Hudson Cable TV. Breeden is working with Dr. Christine Hance, director of Kent State’s School of Art and Architecture, and a faculty member of the Thomas D. Little prize for Excellence in Printmaking in the Kent State School of Art. Angela K. (Roberts) Brittain, North Canton, Ohio, has just released her second book, The Don't-Forget-To-Look-Up Workbook: Uncovering the Root of Anxiety, Panic and Fear. Brittain has recently founded and is the director of Fear to Freedom Ministries. Cups Burns, Alliance, Ohio, is an executive consultant to Copeland Oaks. Patricia Carterette, M.S., Cleveland Heights, Ohio, recently joined the Georgia Public Library Service as director of continuing education. Christine Craycroft, M.A.T. ’92, Kent, Ohio, was a keynote speaker at the 15th annual research conference of Kent State’s Water Resources Research Institute. Craycroft is also the executive director of the Portage County Park District. Lisa M. (Greenbaum) Durbin, M.Ed., Twinsburg, Ohio, is a self-employed enrichment specialist and has been offering her “Language for Little People” enrichment programs in Spanish and French to 3-6 year olds at local schools and libraries since 1999. Deborah M. Fratz, Champion, Ill., is a visiting assistant professor at the University of Wisconsin-Madison. Charles E. Groves, Medina, Ohio, started a managed services company called NTRusted Solutions Inc. in 2007. James R. Koating, M.B.A., Mount Juliet, Tenn., is the manager of customs compliance for Bridgestone Americas. Tracey A. Vaughn, Stow, Ohio, has been a level three pharmacological sales specialist for eight years with AstraZeneca in the greater Akron area.

Susan L. Hatfield, Dlathe, Kan., is a contract administrator at Sprint-Nextel in Overland Park, Kan. Lisa Lynott-Carroll, M.C. Laughlin, S.D., is in the process of establishing a nonprofit organization called Learning Enabled Inc., supporting adults with learning disabilities. Salvatore Rini, Cleveland, Ohio, has been named senior project director for Perspectives Architecture. Alan J. Scott, Ph.D., Menomonie, Wis., is a professor of physics for the University of Wisconsin-Stout. Scott also published a physical science textbook called Addicted to Placebos: Understanding Science and Society.

Thomas S. Block, M.A., West Farmington, Ohio, works in inventory control at Great Lakes Cheese Inc. and is establishing the Museum of New World Cultures. Terri R. Chapman, M.S.N., Akron, Ohio, is the director of nursing at the Akron Institute of Herzog College and started a new associate degree of nursing at Akron Institute. Thor Thordarson, M.B.A., La Porte, Ind., has been appointed vice president of corporate operations for LaPorte Regional Health System.

Roger A. Piper, Massillon, Ohio, is a financial advisor for Morgan Stanley and passed the exam to become a certified financial planner. Sarah W. Shumaker, North Canton, Ohio, is an outreach coordinator for Art in Stark.

Laurie J. Archibald, M.M., Oberlin, Ohio, is owner of LJ A Music Studio. Archibald is a piano instructor at Oberlin College and Lorain County Community College. She was also in Who’s Who in American Women 2008. Patricia A. Barrett, Wadsworth, Ohio, is a registered nurse in labor and delivery at Akron General Medical Center and became nationally certified for in-patient obstetrics. Stephen W. Baum, Bay Village, N.Y., is the creative director at Lee Jeans. Candy Depeve, Philadelphia, Pa., is self-employed as a sculptor/director of Candy Coated Studio. School of Decorative Arts, dedicated to teaching silk screen printing and textile design. Brian S. Frolo, Cleveland, Ohio, established Parallel Practice, a full-service graphic design firm, in the summer of 2007. Robert B. Marshall, Akron, Ohio, is the director of architecture at Cedarwood Architectural Inc. Lori A. Sabatose, M.A., Brockport, Pa., won a Tennis Ace award for the middle states region and as student recreation center manager for Clarion University, won the National Tennis Ace award for promoting tennis in the community. John H. Van Hulst, Bellevue, Neb., was recently selected for promotion to the grade of lieutenant colonel in the United States Air Force and has flown more than 3,000 hours in T-44, EC-130 and RC-135 aircraft.

Tim Augustine, Brighton, Mich., is the principal and vice president of corporate services for Atwell-Hicks. Augustine published his second book called How Hard Are You Knitting? Kristin T. Hunt, Delaware, Ohio, is a first grade teacher for Westerville City Schools. David M. Hutton, B.A. ’94, Canton, Ohio, was recently named design editor for The Times-Register. Lisa A. (Matzelle) Kowalezyk, M.S.L., Cleveland, Ohio, is a children’s librarian at Cleveland Public Library. Dwayne E. Mihalow, B.S. ’94, Beaver Falls, Pa., opened his own company, Phase 3 Design Associates, in 2004. Anne M. (Mao) Slamina, Ph.D., Hanover, Pa., is an associate professor at Slippery Rock University. Slamina recently published Baby Brother Goes to the Hospital, her second children’s picture book in the Annie Moose series.

Morgan N. (Duhon) Cassidy, South Lyon, Mich., along with her husband Tim, created Zippy Tags in 2007. Zippy Tags are iron-on patches that attach permanently to any bag. Nao A. Mokora, M.Ed., Maseno, Kenya, is working for the government and water distribution in Lesotho.

Randall S. Evans, M.S.A., Massillon, Ohio, is vice president for institutional advancement at Lake Erie College. James L. Markowitz, Longview, Texas, was hired in 2007 as a first officer for Southwest Airlines. Nathan C. Rauch, Frederick, Md., is a health care administrator for the U.S. Army. Rauch was recently selected for major in the U.S. Army and recently graduated from Army-Baylor University in health care administration. Rhonda K. Whiteklock, Garfield Heights, Ohio, works for the Cleveland Better Business Bureau helping with disputes and teaching kids about using smart credit.

Beverly Blankenship, M.L.S., Marion, Ohio, is the director/head librarian at The Ohio State University at Marion/Marion Technical College. Blankenship is also the recipient of the Academic Library Association
New Events for Recent Grads
Fall 2008

Get a head start on your life after Kent State through these networking and career enhancement opportunities offered to recent graduates by the Kent State University Alumni Association.

**Careers Over Coffee**
7 - 8 p.m.
Kent Student Center
This series is open to recent graduates and students. Each session features a panel of alumni representing a range of experiences within a career field. Special emphasis is placed on how to develop the skill sets employers are seeking in today’s job market.

**Nov. 10 - Career Fields**
Psychology and Counseling
Graphic Design and Visual Communication
Biological Sciences
Direct Sales

**Feb. 10 - Career Fields**
Law
Writing, Journalism and Editing
Teaching and K-12 Administration
Computer Science

**Life Planning Seminar**
Spring 2009
Watch for more details at www.ksualumni.org.

**Networking Happy Hours**

**Alumni Happy Hours**

**Cards Over Coffee**

**Akron Happy Hour Series**
Nov. 13, 6 - 8 p.m.
Barley House, 222 South Main St.
Dec. 11, 6 – 8 p.m.
The Double Olive, 1282 Weathervane Ln.

The second Thursday of every month is time for you to unwind with fellow Kent State alumni. Join in on the fun and food as you kick back and enjoy your first drink on us.

Don’t forget extra business cards for new contacts and to be entered to win an Akron prize package.

Vote for your favorite location and determine the 2009 Akron Happy Hour site at www.ksualumni.org. 2nd Thursday Happy Hours will continue in 2009 and expand to the Cleveland area.

**Professional Networking Nights**
7 p.m. (locations to be determined)
This is a great opportunity to expand your professional network. Business attire required.

**Nov. 19 - Advertising, marketing and public relations**

**Feb. 25 - Speed networking for financial services and banking**

**April 1 - Open to all career fields**

These events are sponsored by the Kent State University Alumni Association and are designed to meet the unique needs of alumni who have graduated in the last three years. For more information on these events, visit www.ksualumni.org and look for recent grad information.
of Ohio Jay Ladd Distinguished Service Award. \textit{Christopher Cleary}, Alpharetta, Ga., released his young adult novel, \textit{Writing on the Wall}. \textit{Laurie E. Fiegley}, B.S. ’97, M.Arch. ’97, Cleveland Heights, Ohio, is a project manager for the Cleveland office of Burt Hill, an international architectural and engineering firm. \textit{Jeffrey M. Frankford}, Danville, Ohio, is a health and physical education teacher for Loudonville-Perrysville Schools. \textit{Carrine A. Hutchinson}, Ed.S. ’01, M.Ed. ’99, Stow, Ohio, was hired as the supervisor of special education for Hudson City Schools. \textit{Kristianne D. Kloss}, Columbus, Ohio, is a jewelry/metals instructor at Columbus Cultural Arts Center. \textit{Barb McCoy}, Rock Hill, S.C., is a registered nurse for Hospice and Palliative Care-Charlotte Region. \textit{Steven L. Skovensky}, Chicago, Ill., is the resident services manager for Marcy Housing Leftsfere.

\textbf{Joseph H. Boardwine}, Aurora, Ohio, is a financial advisor for Merrill Lynch. \textit{John A. Caprarulo}, East Liverpool, Ohio, has been in comedy shows in Ohio and is hosting a show on Country Music Television called \textit{Mobile Home Disasters}. \textit{Amy J. McCann}, North Canton, Ohio, is working as a dietician with diabetics patients at Aultman Health Foundation. \textit{Missy Mensurati}, B.S. ’03, Brockfield, Ohio, is a service coordinator for Community Solutions and has been working to help children with disabilities find the services that they need. \textit{Amy K. Simmons}, Cleveland, Ohio, is the director of human resources at Clevelad Development Group. Simmons also received her PHR certification. \textit{Amada K. Skinner}, Akron, Ohio, was promoted to regional director at REM Ohio Inc.

\textbf{Jamie L. Carmichael}, Columbus, Ohio, is a supervisor for family stability for the state of Ohio. \textit{Tracy D. Fuldaer}, M.Ed. ’05, Kent, Ohio, is an emergency mental health therapist for Coleman Professional Services in Ravenna. Ohio. Fuldaer recently obtained her independent license and is now a professional counseling and a certified rehabilitation counselor. \textit{Kevin A. Richmond}, Massillon, Ohio, owns and operates KAR Cleaning and Detailing. Richmond is also an auto detailer for Stancato’s Auto Service. \textit{Susan M. Reeser}, Munroe Falls, Ohio, recently joined the corporate communications team at The Davey Tree Expert Company as a project coordinator. \textit{Jeanette E. Timmons}, M.A.T., Chagrin Falls, Ohio, is the owner of Vedic Ventures and is chief chief of Math Monkey of Solon, a math enrichment program for students 5-14 years old.

\textbf{Jessica L. Busack}, Ed.S. ’02, M.Ed. ’00, Newark, Ohio, works for Newark City Schools serving as a school psychologist within the district. \textit{Kristine Y. Fahl}, Mansfield, Ohio, is a registered nurse for University Hospitals of Cleveland Case Medical Center and is attending graduate school for acupuncture at American Institute of Alternative Medicine in Columbus. \textit{Elizabeth A. Kirk}, Geneva, Ohio, is a patrol officer for Madison Township Police Department where she started its K-9 unit. \textit{David B. Skinner}, Akron, Ohio, is a service supervisor for Hope Homes in Stow, Ohio. \textit{Jamie L. Smith}, Delaware, Ohio, is a postdoctoral fellow for the National Center of Organization Development. \textit{Stefani B. Vecchery}, Cuyahoga Falls, Ohio, is a staff registered nurse for Robinson Memorial Hospital in the birthing center.

\textbf{Jocelyn M. Corbin}, Fayetteville, N.C., is an army veteran. \textit{Vicki Herbert}, M.L.S., Louisville, Ohio, is a retired librarian after 32 years and now volunteers at the Humane Society, a middle school library and her church library. \textit{Rachel J. Jagunic}, Dickinson, N.D., was appointed circulation manager at Dickinson Press. \textit{Janita L. McGowan}, B.S. ’01, Cleveland, Ohio, works in non-profit arts Young Audiences. \textit{Glenn E. Pugh}, A.A.S. ’01, Newcomenstown, Ohio, is a CNC custom macro programmer and tooling engineer for AMEC. \textit{Stacie A. Schmidt}, Las Vegas, Nev., is the talent promotions manager for the House of Blues/Live Nation at Mandalay Bay. \textit{Susan D. Ungham}, M.L.I.S., Brunswick, Ohio, is the branch manager of the Brunswick Library. Ungham was previously the branch manager for the Cleveland Public Library-South.

\textbf{Angela C. Webber}, Garfield Heights, Ohio, is currently working at Lake Catholic High School in Mentor, Ohio, as a Spanish teacher. \textit{Marisa M. Wynn}, Cuyahoga Falls, Ohio, is a intern physician at Cuyahoga Falls General Hospital.

\textbf{Stephen G. Cox}, Uhrichsville, Ohio, is the pastor of discipleship and youth at Park Christian Church in Dennison, Ohio. \textbf{Kevin N. Dickinson}, Syracuse, N.Y., is the general manager of Cinta. \textbf{Elizabeth A. Kinn}, Kent, Ohio, is currently teaching on the Africa Money Medical ship in Liberia, West Africa, and previously taught preschool/Kindergarten in Koyek, Alaska. Kinn was also an au pair in Germany. \textbf{Jonathan Mills}, Indiana, Pa., qualified to play golf in the U.S. Open. \textit{Justin R. Nicholes}, M.A. ’03, Geneva, Ohio, recently released his debut novel, \textit{Ash Dogs}; and is an instructor at Ford Hays State University teaching at its Chinese partner university in Xinzhou City, China. \textit{Rachel E. Phillips}, Columbus, Ohio, is the business development manager for Search Engine Guide which educates small businesses on best practices online. \textit{Robyn E. Vittek}, M.L.I.S., Hartville, Ohio, was promoted to assistant youth services coordinator at the Akron-Summit Public Library. \textit{David L. Vosburgh}, M.F.A., Youngstown, Ohio, is the production director at Opera Western Reserve and is a limited service instructor for Youngstown State University.

\textbf{Matthew A. Divita}, Lyndhurst, Ohio, is vice president of investment management for Capital Wealth Management. \textit{Frederic W. Kirchner}, Dayton, Ohio, is the teen librarian at Dayton Metro Library, Kirchner’s book of poetry, \textit{Platform of an Unacknowledged World Legislator}, won the 2005 Main Street Rey Chapbook contest. \textit{Andrea M. Peeve}, M.A. ’05, Lafayette, Colo., received the 2008 Mom’s Choice Award for her book \textit{What Kids REALLY Want to Ask: Using Movies to Start Meaningful Conversations}.

\textbf{Dennis C. Biviano}, Niles, Ohio, is a video journalist at New Vision Technology WXKN, WYTV and Fox 1762. \textit{Joshua P. Franscosky}, M.B.A., Marietta, Ga., is a planner for the Atlanta International Airport and recently received his accredited airport executive distinction. \textit{Kelly M. Payne}, M.A., Athens, Ohio, is a tenured instructor at Olney Central College where she teaches English composition and various literature classes. Payne is also the faculty coordinator for assessment. \textit{Kurt R. Sampson}, Athens, Ohio, is a part-time instructor of English at Ohio University. \textit{Suzanne R. Snyder}, Dalton, Ohio, works for human resources in Wanset, Ohio. \textit{Jeremy W. Tawney}, M.A.T. ’96, Stow, Ohio, is a government teacher and service learning coordinator at Hudson High School.

\textbf{Emily J. Zank}, Louisville, N.C., is director for Jessica’s Hope Chest Inc., a foundation for critically ill children.

\textbf{Rachael M. Chicore}, M.L.S., Willowick, Ohio, is a children’s assistant at Willoughby Public Library. \textit{Audra M. Godfrey}, Akron, Ohio, is the assistant director for the Center for Career Planning at Otterbein College. \textit{Natalie A. Hageman}, Belmont, N.C., is a FACSS teacher for Gaston County Schools in Gastonia, N.C. \textit{Kelly L. Lottak}, Pampa Heights, Ohio, is a school-based mentoring specialist for Big Brother and Big Sisters of Greater Cleveland. \textit{Sofianio J. Wessell}, Rome, Ohio, is the editor for the Ashatabala County Gazette.

\textbf{Lauren A. McCauley}, Lyndhurst, Ohio, was a recipient of the 2009 Barbara Donoho Distinguished Leadership in Learning Award. McCauley was recognized as a clinical preceptor who displayed sound professional role modeling and mentoring, high quality service and contributions to the learning experiences of Kent State students.
**LIFE MEMBERS**

Of the Kent State University Alumni Association

Our life members are the backbone of the Kent State University Alumni Association. Their dedicated support makes it possible to provide important programming and services for a stronger alumni association and university.

If you are a life member, thank you! If you’re not, please consider getting involved today and show your support through life membership. For more information on becoming a life member of the alumni association, call 330-672-KENT or toll free at 1-888-320-KENT.

Below is a list of the many dedicated individuals who recently became life members in the Alumni Association. A complete list of life members can be found at www.ksualumni.org/member.

<table>
<thead>
<tr>
<th>Name</th>
<th>City, State</th>
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<tbody>
<tr>
<td>David Barrett, Edgewood, N.M.</td>
<td>Akron, Ohio</td>
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<td>Louis Berndt, Akron, Ohio</td>
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<td>Arthur Brookhart, Ravenna, Ohio</td>
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<td>Suzanne Brotherton, Ravenna, Ohio</td>
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<td>Anitra Brown Shaefer, Elyria, Ohio</td>
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<td>Matthew Byrseth, Akron, Ohio</td>
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<td>Dona Burke, White Plains, N.Y.</td>
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<td>Stephanie Cottrell, Gambier, Ohio</td>
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<td>Dana Daniels, Canton, Ohio</td>
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<td>David Duncan, Fairlawn, Ohio</td>
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<td>George Ellis, El Paso, Texas</td>
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<td>Jerriynn Ferguson, Copley, Ohio</td>
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<td>Roger Frank, Cleveland, Ohio</td>
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<td>Patricia Gerber, San Mateo, Calif.</td>
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<td>Karen Glover, Cincinnati, Ohio</td>
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<td>Barbara Galias, Ravenna, Ohio</td>
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<td>Anson Hanlon, Akron, Ohio</td>
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<td>Jennifer Hanlon, Akron, Ohio</td>
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<td>Francine Hildebrand, Hot Springs, S.D.</td>
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<td>David Jobe, Gainesville, Fla.</td>
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<td>Cathryn Jurecki, Lancaster, Ohio</td>
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<td>Russell Jurecki, Lancaster, Ohio</td>
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<td>Charlene Kimmel, Ashland, Ohio</td>
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<td>Craig Kornakwski, Mansassas, Va.</td>
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<td>Daniel Kuhns, Stow, Ohio</td>
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<td>Megan Leasher, Fairborn, Ohio</td>
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<td>Janet Longanecker, Kent, Ohio</td>
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<td>Kevin Longanecker, Kent, Ohio</td>
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<td>Frank Louca, Pickerington, Ohio</td>
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<td>Laurel Markovich, Akron, Ohio</td>
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<td>Peter Markovich, Akron, Ohio</td>
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<td>Kenneth Mayes, Media, Pa.</td>
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<td>Ashley Mayle, Zanesville, Ohio</td>
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<td>Dennis McCormick, Gambier, Ohio</td>
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<td>Pamela McDowell, Fayetteville, N.C.</td>
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<td>Robert McEwan, Fayetteville, N.C.</td>
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<td>Claudette McFadden, Zephyrhills, Ohio</td>
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<td>David Milovich, Akron, Ohio</td>
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<td>Harvey Miller, Salinas, CA, USA</td>
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<td>Suzanne Miller, Salt Lake City, Utah</td>
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<td>Elizabeth Mooney, Troy, Mich.</td>
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<td>Linda Moore, Westtown, Pa.</td>
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<td>Ray Moore, Troy, Mich.</td>
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<td>Margie Noff, Dayton, Ohio</td>
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<td>Richard Nore, Hudson, Ohio</td>
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<td>Anita Palm, Diamond, Ohio</td>
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<td>Angela Paris, Youngstown, Ohio</td>
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<td>Richard Pautz, Mooresville, Ohio</td>
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<td>Kurt Phillips, Lumberton, N.C.</td>
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<td>Robert Plank, Wadsworth, Ohio</td>
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<td>Ruth Ralph, Wingham, Mass.</td>
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<td>Janet Schmidt, Poolesville, Md.</td>
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<td>Spencer Schmidt, Poolesville, Md.</td>
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<td>George Schulz, Garwood, New Jersey</td>
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<td>Lynn Schulz, Garwood, New Jersey</td>
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<td>Blair Sherwood, Ocean Springs, Miss.</td>
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<td>Todd Shirk, Streetsboro, Ohio</td>
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<td>Robert Soles, La Grange, Ill.</td>
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<td>Larry Sommerfield, Parma, Ohio</td>
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<td>Janet Stoddard, Kent, Ohio</td>
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<td>Parvin Panthamurthy, Cambridge, Ohio</td>
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<td>Dorothy Tuck, Dayton, Ohio</td>
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<td>William Wardle, The Villages, Fla.</td>
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<td>Linda Wellington, Hilliard, Ohio</td>
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<td>David Williams, Alliance, Ohio</td>
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<td>Ruth Williams, Alliance, Ohio</td>
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<td>Anne Wilson, Annadale, Va.</td>
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<td>Richard Wilson, Annadale, Va.</td>
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<td>Jeffrey Yoder, Alexandria, Va.</td>
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**L O S S E S**

in the Kent State Family

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<tr>
<th>Year</th>
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<tr>
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**Friends of Kent State**


**Losses in the Kent State Family**

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**Friends of Kent State**


**Alumni Association welcomes new board members**

The Kent State University Alumni Association's National Alumni Board of Directors is pleased to announce the addition of two new board members. John Garafalo, ’87, and Stuart Giller, ’56, will each serve a three-year term. The board meets quarterly, and members must bring a commitment to and involvement in association-sponsored initiatives.

Garafalo, a senior development officer at Rainbow Babies and Children’s Hospital at University Hospitals, graduated with a Bachelor of Science in community health education. He is serving on the board as a way to give back to the university, develop acquaintances and promote Kent State to incoming freshmen and potential students. Garafalo has been an active member of the Alumni Association.

Giller, CEO of B. Berger Co. in Macedonia, graduated with a Bachelor of Science in journalism and mass communication with a business minor. He says he is loyal to his alma mater and hopes to help expand the reach of the Alumni Association and engage more alumni in promoting the university and all that it has to offer. Giller has also served as a member of the Kent State Foundation Board and the Northeastern Ohio Universities Colleges of Medicine and Pharmacy Foundation Board of Directors.

"I look forward to working with John and Stuart who both have a strong commitment to the Alumni Association’s mission of building and sustaining lifelong relationships among alumni, students and Kent State University," says Lori Randorf, executive director of the Kent State Alumni Association.

If you are interested in serving or nominating someone to serve on the board, please visit the Alumni Association’s Web site for more information.
Increased leadership in path-breaking research — that’s one part of Kent State’s new vision statement, adopted this year.

Gifts from alumni and friends, and grants from corporations and foundations are supporting Kent State research that is truly a marvel.

Samsung recently renewed its significant partnership with the Liquid Crystal Institute, where knowledge that made flat-panel screens possible is now being used in “smart” greenhouses, biological applications and even fashion. And AT&T has continued its collaboration with the Research Center for Education Technology, where scholars are learning the best practices to help teachers adapt to 21st-century classroom needs.

As Kent State approaches its centennial in 2010, our vision for the next 100 years includes an even greater emphasis on knowledge that revolutionizes how we live.

Your gift in support of research can turn a scholar’s theory into the next idea that shapes the world. Learn more by calling 330-672-2222 or visiting www.kent.edu/advancement today.

Kent State University Foundation
P.O. Box 5190
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330-672-2222

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Winter 2008
For a complete listing of concerts, lectures, performances, exhibits and other events at Kent State’s eight campuses, visit www.kent.edu/ecalendar.

**Nov. 1-9**
*Three Sisters*
Wright-Curtis Theatre
330-672-4102

**Nov. 1, 2008-May 31, 2009**
*Rudi Gernreich: BOLD*
Kent State University Museum
330-672-3450

**Nov. 6**
McGruder Luncheon and Lecture
School of Journalism and Mass Communication
Kent Student Center Kiva
330-672-2572

**Nov. 6-15**
Kent State Folk Festival
Various Locations
Kontstatefolkfestival.org

**Nov. 21-23**
Dance 2008: Excellence in Motion
E. Turner Stump Theatre
330-672-4102

**Nov. 24**
Studio Ensemble
Main Hall Auditorium
Kent State Stark
330-244-3380

**Dec. 2**
Kent State Stark Concert Band
Fine Arts Theatre
Kent State Stark
330-244-3348

**Dec. 3**
Kent State Tuscarawas Chorus
Founders Hall Auditorium
Kent State Tuscarawas
330-339-3391

Profiles of Ashtabula County Breakfast
Blue and Gold Room
Kent State Ashtabula
440-415-1529

**Dec. 13**
Master’s and Baccalaureate Commencement
MAC Center
330-672-2235

**Jan. 21-31**
Scholastic Art Awards Exhibition
Fine Arts Gallery and Lobby
Kent State Stark
330-244-3356

**Jan. 24**
All Star Chamber Concert
Ludwig Recital Hall
330-672-2965