

Office of the President  
January 11, 2005

1. UK's HEEL Program Leads Effort to Rescue Children at Risk From Meth Labs

An alliance announced in mid-December by University of Kentucky President Lee T. Todd Jr. will help identify children placed at risk by clandestine drug laboratories and provide health care and developmental assistance to these children. These illegal labs, a significant and growing problem in Kentucky, make methamphetamine inside homes, exposing children living there at risk. Kentucky's Alliance for Drug Endangered Children is a collaborative effort involving UK College of Agriculture Cooperative Extension Service's Health Education through the Extension Leadership (HEEL), the College of Medicine, the College of Social Work, the College of Public Health, the College of Law, the College of Pharmacy, and the College of Dentistry, in partnership with many agencies across the state. According to Kentucky State Police statistics through December 6, 2004, 66 children have been found living in meth labs in Kentucky. Holly Hopper, alliance chair and HEEL Extension Associate for Health, will lead the alliance. Four sessions conducted by national experts will train 1,200 police, social workers, health care providers, emergency responders, family resource center employees, victim advocates, community mental health care providers, prosecutors, and community coalition members. Educational resource materials will be provided by the HEEL program to educate communities on meth-identification on farms and in homes. Training is supported by a grant from the U.S. Office for Victims of Crime.

2. Health Communication Doctoral Program Climbs to Sixth in National Rankings

The UK College of Communications and Information Studies' health communication doctoral program rose from eleventh to sixth place in a national ranking of such programs by the National Communication Association's Doctoral Reputation Study. The study includes findings from an 84-page questionnaire modeled on the National Research Council Study of doctoral programs. The study was completed by 376 faculty respondents from colleges and universities around the nation. Respondents rated the reputations of nine different types of doctoral programs in communication. A previous study ranked the Department of Communication first in funded research. Other health communication doctoral programs in the top ten included, in order of their ranking, the University of Pennsylvania, Pennsylvania State University, Michigan State University, University of Illinois-Urbana Champaign, University of Georgia, Texas A&M University, Purdue University, Rutgers University, and Ohio University.

3. UK Supports Pharmaceutical Development Through Initiative With Private Sector

UK has launched an initiative to work with a private-sector company to develop plant-manufactured pharmaceuticals from tobacco – an area of research that has tremendous economic potential. A \$3 million grant of New Economy money from the state to the UK Research Foundation makes the project possible. UK researchers will work with Large Scale Biology Corporation, a 15-year-old bio-pharmaceutical development and manufacturing company based in Vacaville, California. Research efforts are focusing on the development of therapeutic proteins and vaccines, antibodies, and other pharmaceutical products. The company has more than 85 employees at two locations in the United States, including a bio-manufacturing facility in Owensboro that is working to develop plant-manufactured pharmaceuticals from tobacco. UK College of Agriculture researchers in the Kentucky Tobacco and Research Development Center have earned international prominence for their work in the natural-products field, especially in their development of new tobacco-related plants and associated agricultural methods for use by the plant-made pharmaceuticals industry. UK President Todd said the grant demonstrates the partnership that can – and should – exist between state government and the university to stimulate research that can move the state forward and generate an important economic development impact.

4. Human Development Institute Wins \$5 Million Grant on Disability Access

UK's Interdisciplinary Human Development Institute (IHDI) recently won a five-year, \$5 million grant from the U.S. Department of Education to create a National Collaborative Center on Standards and Assessment Development (NCCSAD). The IHDI project develops inclusive large-scale assessment systems to evaluate how individual schools comply with the federal Individuals with Disabilities Education Act. The federal law requires that all students be represented in each state's accountability system. Each school is required to assess each student, even students with moderate or severe disabilities. The new center will look at issues relating to the development and subsequent implementation of these assessments. NCCSAD will partner with UK researchers; technical assistance providers; nationally known experts in measurement, curriculum, and special education; advocates; policy-makers; and 11 partner states.

5. Three UK Physics Professors Are Elected as Fellows of Prestigious Society

Three UK physics and astronomy professors have been elected as Fellows of the American Physical Society (APS). New APS Fellows are Joseph Brill, whose research interests include novel thermal, elastic, and infrared probes of crystals with “low-dimensional” electronic properties; Nicholas Martin, whose research interests include electron and photon impact excitation and ionization of atoms; and Joseph Straley, whose expertise is in critical phenomena. Election to fellowship in the national society is limited to 0.5 percent of the APS membership each year. The APS fellowship program was created to recognize members who have made advances in knowledge through

original research and publication or made significant and innovative contributions in the application of physics to science and technology.

6. Singletary Center Wins 2004 Governor's Organizational Community Arts Award

The UK Singletary Center for the Arts will receive the 2004 Governor's Organizational Community Arts Award, one of ten Governor's Awards in the Arts to be presented next month in Frankfort. Other award recipients will be David Jones, Ricky Skaggs, Elizabeth Hartwell, Julius Friedman, Nana Yaa Asantewaa, the Carnegie Visual and Performing Arts Center, John Harrod, the Hindman/Knott County Community Development Initiative, and WTCR radio. Previous winners have included Naomi, Wynonna and Ashley Judd; the Kentucky Shakespeare Festival; and former Kentucky first lady Phyllis George Brown.

7. UK Partners With China on Earthquake-Detection Research

Earthquake experts from the Kentucky Geological Survey, the UK Department of Geological Sciences, and the People's Republic of China will benefit from each other's research as a result of a new agreement. Three Chinese experts in seismology, geology, and geophysics from China's Lanzhou Institute of Seismology will visit UK in April to share their knowledge and experience while learning about seismic research in Kentucky. UK researchers will go to China this summer. The new partnership also will support a visiting scholar from each country to conduct seismic research on ground motions and to detect geologic faults in urban environments.

8. Startup Companies Move Into ASTeCC and AgTeCC

The UK Advanced Science and Technology Commercialization Center (ASTeCC) is now home to M2 Technologies and Prescient Medical. Founded by Chris and Janet Morris of Versailles, M2 Technologies works with Daniel Lau in Electrical and Computer Engineering to develop the Anti-sniper Infrared Target System. Prescient Medical, which develops diagnostic technologies for coronary artery plaque, works with Rob Lodder in Pharmacy. New on-campus incubator space in the Kentucky Tobacco Research and Development Center Building, called the Agricultural Technologies Commercialization Center (AgTeCC), houses two companies. Oraceuticals, founded by Jeffrey Ebersole in Dentistry and Chifi "Brad" Huang in Pharmacy, will fight oral health diseases using natural products, especially natural products from Kentucky. Paratechs, founded by Bruce Webb in Agriculture, will combine insect molecular biology and plant technology research to produce plants that can control their own damaging insect pests.

9. Four UK Faculty Receive Major Grants; Research Awards Up 15 Percent

Awards received through UKRF for the period July through November 2004 total \$155,568,390, a 15.5 percent increase over the total for the same period last year. Federal awards have increased from \$80.3 million to almost \$87.1 million, an 8.5 percent increase. The U.S. Department of Education awarded Jacqueline Kearns,

Interdisciplinary Human Development Institute, a \$5 million, five-year grant to produce guidelines and procedures for alternate achievement standards and assessments for students with disabilities. Mark Dignan, UK Prevention Research Center, received a five-year grant for nearly \$2 million from the National Cancer Institute to develop a program focused on rural, low-income populations that will provide a specialized curriculum of cancer prevention and training for pre-doctoral and post-doctoral students. David Yurek, Neurosurgery, received more than \$1.6 million from the National Institute of Neurological Disorders to study whether dopamine neurons derived from embryonic stem cells, which could potentially ease Parkinson's symptoms, retain cellular markers that are critical to the survival and maintenance of mature dopamine neurons. Patrick Trader, Archaeological Research, received a \$1 million grant from the Kentucky Transportation Cabinet to conduct archaeological investigations at proposed road developments and bridge replacements.

10. Coldstream Research Campus Attracts Two New Business Tenants

Coldstream Research Campus gained another tenant as Immpheron expands and creates 15 new jobs when it relocates its existing laboratory on Nicholasville Road to the Kentucky Technology Center. The biotech startup, co-founded by Heniz Kohler in Microbiology and Immunology, is currently working with the Canadian company InNexus Biotechnology to produce secondary antibodies for diagnostic kits. Meanwhile, ASTeCC graduate LevTech has also moved to Coldstream. Alex Terentiev and Lance DeLong, Physics and Astronomy, use superconductivity levitation as a novel method of mixing hermetically sealed, high-purity solutions, such as those found in the pharmaceutical and biotechnology industries.

11. UK Public Radio Station's News Reports Win Six CASE Awards

WUKY (FM 91.3), UK's public radio station, received six awards for news writing from the Kentucky chapter of the Council for Advancement and Support of Education (CASE). The 2004 CASE Kentucky awards, the news reports, and the WUKY personnel who produced them are: in the category of Excellence in Radio News and Feature Writing, "WIFI in Lexington," Alan Lytle, reporter; "Working Relationships," Josh James, reporter; "Voices from Keeneland," Bill Griffin, former reporter; and "The Achievement Flap," UK journalism students and Alan Lytle; and in the grand category of Radio News and Feature Writing, "Clearing the Air," Josh James, reporter; and "A Firefighter's Farewell," Josh James. A total of 47 CASE Kentucky awards were presented to 10 institutions.

12. UK HealthCare Develops Internet Information Resource for Patients, Families, Public

UK HealthCare developed a patient support group Internet listing to be used as a resource for patients, their families, and the general public. The UK Web site encompasses a comprehensive list of more than 500 groups with various topics and issues addressed. The database contains information specific to Kentucky but also provides information on receiving assistance nationwide. The list, complete with contact

information, is now available online at [www.ukhealthcare.uky.edu/patient/listofgroups.htm](http://www.ukhealthcare.uky.edu/patient/listofgroups.htm).

13. KGS Water Resources Section Begins Testing Springs in Pulaski County

In early December, researchers in the Kentucky Geological Survey (KGS) Water Resources Section began injecting harmless dyes into the waters of eastern Pulaski County to determine the sources and flow rates of springs in the area. The work will help determine the availability and safety of these waters, which constitute the drinking water supply for people and livestock in the area. Funded by the Kentucky Transportation Cabinet, the work will also help minimize the impact on groundwater of the proposed I-66 project.

14. Language Professor Receives \$40,000 NEH Fellowship

Gerald J. Janecek, professor of Modern and Classical Languages, Literature and Cultures in the UK College of Arts and Sciences, has received a one-year, \$40,000 National Endowment for the Humanities (NEH) Fellowship to complete a book on Moscow Conceptualism, an art and literature movement that occurred during the later years of the Soviet Union. The NEH Fellowship covers a period of nine to 12 months, allowing Janecek to work full-time on the book in lieu of teaching and other faculty responsibilities. Janecek is the editor-in-chief of *Slavic and East European Journal* and is the author of *The Look of Russian Literature: Avant-Garde Visual Experiments, 1900-1930*; *ZAUM: The Transrational Poetry of Russian Futurism*; and *Sight & Sound Entwined: Studies of the New Russian Poetry*. Janecek teaches courses on 20th century Russian literature in translation, various Russian language courses, and Russian and Soviet Culture of the 20th century. The NEH Fellowship was awarded in recognition of work already accomplished and the promise of a completed study that will be of interest to an educated general audience and to scholars in many disciplines.

15. Fifty-three Students in Physician Assistant Studies Program Get White Coats

Fifty-three students in the Physician Assistant Studies program's Class of 2007 received their white coats at the fifth annual Convocation and White Coat Ceremony on Sunday, January 9, in UK Memorial Hall. Meanwhile, the 57 members of the Class of 2006, who were about to embark on their clinical experiences, took the physician assistants' oath.

16. College of Social Work Begins Developing Graduate Program on Latino Populations

The College of Social Work is developing a graduate certificate in Professional Practice with Latino Populations. Associate professor Richard Sutphen will begin working on development of the certificate program in Mexico in summer 2005. Social work students will be required to take a two-course sequence in Mexico (during the

summer) and complete two semester-long practica with Latino populations somewhere in the United States.

17. Juvenile Obesity, Stroke Research Are Featured in Latest *Odyssey*

The problem of juvenile obesity – and the work five UK researchers are doing to confront the challenge – is the cover story in the new edition of *Odyssey*. Important stroke research; digital “unwrapping;” migration and farming practices in Zambia; and Coldstream executive director John Parks also are featured. *Odyssey*, published three times a year by the UK Office of the Executive Vice President for Research, is available online at [www.research.uky.edu/odyssey](http://www.research.uky.edu/odyssey).

18. UK Journalism Students Rank Fourth in Nation After First Round of Competition

After the first round of the Hearst Journalism Writing Competition, UK is currently fourth in the country behind Nebraska, Florida A&M, and Kansas. Andrea Uhde, a UK journalism graduate (May '04), placed eighth. Emily Hagedorn, senior journalism major and editor-in-chief of the *Kentucky Kernel*, tied for 19<sup>th</sup> place in the feature writing competition, out of 105 entries.

19. Student Awards and Achievements

Trish Gibson, graduate student in the Patterson School of Diplomacy and International Commerce, was awarded the fourth annual \$12,000 *Lexington Herald-Leader* Fellowship for the 2005-2006 academic year. The fellowship will cover the period from Aug. 1, 2005, through May 31, 2006.

Mia Lustria, Communications graduate student, received the University's Commonwealth Award for fall 2004 and a Dissertation Enhancement Award. Additionally, she was awarded the Beta Phi Mu Eugene Garfield Dissertation Fellowship and the Jacobs Foundation Information Technology Dissertation Grant. She also co-authored with Donald Case, Library and Information Studies, an article titled “Challenging the Publishing Giants: A Survey of SPARC Partners and Featured Analysis of Their Alternative Electronic Journals,” which is in press in the *Journal of Academic Libraries*.

Christine Rache Spurlock, Communications graduate student, received the \$2,500 Frank J. Corbett Health Marketing Scholarship.

20. Faculty and Staff Awards and Achievements

Peter Abadir, a resident physician at East Kentucky Family Practice Residency, part of the Center for Rural Health, will publish “Angiotensin AT2 Receptor-Bradykinin B2 Receptor Functional Heterodimerization: A Marriage of Convenience,” in *Hypertension*, a journal of the American Heart Association. The study involves a new approach in the war against hypertension.

Patty Cook, Social Work, co-presented the paper “Effectiveness of organizational learning in after-school programs in the U.S. and Israel,” at the third annual Organizational Learning in Israeli Social Services Fair held in Tel Aviv, Israel.

Al Cross, Institute for Rural Journalism and Community Issues, contributed to two books published this fall. He wrote the foreword to “Kentucky 24/7,” a coffee-table book of photographs of the state by Kentucky photographers and part of the 50-state series published by DK Publishing of New York. He also wrote the Ernie Fletcher entry, updated the Julian Carroll and Louie Nunn entries, was listed as co-author, and contributed other comments to Editor Lowell Harrison for the updated edition of *Kentucky Governors*, published by University Press of Kentucky.

Surjit Dhooper, Social Work, spoke on “Understanding the Realities of Aging Women with Spinal Cord Injury” as part of the University Libraries’ Distinguished Scholars Lecture Series for 2004.

Scott Diamond, Physiology and Markey Cancer Center, recently received the American Cancer Society’s Heart of Relay Award for research promotion at the division and national levels. The annual award is given by the American Cancer Society (ACS) for outstanding work supporting the mission and goals for the future of ACS. The award is based on recognizing a “Best Practice” in the promotion of cancer research through the ACS’s Relay for Life event.

Alan DeSantis, Communication, presented his paper titled “Greek Sex: Understanding Conceptions of Gender and Sexuality in Fraternities and Sororities” at the November National Communication Association convention in Chicago. The paper received the top award in the Ethnography Division.

Jim Drahovzal, Kentucky Geological Survey Energy and Minerals Section, received a Division of Professional Affairs Certificate of Merit from the American Association of Petroleum Geologists. It will be presented at the AAPG annual convention in June 2005.

Nancy Grant Harrington, Communication, is now serving as chair of the Health Communication Division of the National Communication Association. She also co-authored an article that won the Health Education & Behavior’s Lawrence W. Green Best Paper of the Year Award. The paper, titled “How All Stars Works: An Examination of Program Effects on Mediating Variables,” is in press in the journal *Health Education & Behavior*.

Will Marshall, Forestry, has been recognized by the Kentucky Fish and Wildlife Resources Commission as a Wildlife Steward. Marshall, who is facility director at Robinson Forest, was commended for developing partnerships to benefit wildlife and for managing resources to meet the needs of future generations.

Cynthia Raehl, founding chair of the Department of Pharmacy Practice at the Texas Tech School of Pharmacy, received the 2004 Paul F. Parker Award from the UK College of Pharmacy. The award was presented during the American Society of Health-System Pharmacists (ASHP) Midyear Clinical Meeting. The honor is presented annually to a past resident of the UK Pharmacy Residency Program or to an individual associated with the success of the program who has displayed sustained contribution to the profession in practice, teaching or research. It also honors Paul F. Parker, the force behind establishing and developing one of the nation’s finest pharmacy residency programs at UK.

Ada Sue Selwitz, Office of Research Integrity, was named to the Department of Health and Human Services Secretary's Advisory Committee on Human Research Protection.

Jennifer Swanberg, Social Work, was interviewed twice on National Public Radio during the month of November. The features were "CVS Sets Example in Low Wage Job Training," on *All Things Considered*, Nov. 14, and "Jeans Plant Gives Hourly Workers a Safety Net," Nov. 29, on *Morning Edition*.

Jennifer Swanberg, Social Work, was quoted in *The Boston Globe* story "Out of the Shadows: Company Programs Give a Crucial Boost to the Working Poor," published Nov. 28.

John Thelin, Educational Policy Studies, participated in a project sponsored by the Booz Allen Hamilton management and strategy consulting company of McLean, Va., to identify the world's 10 most enduring institutions of the 20th and 21st centuries in the areas of arts and entertainment, business and commerce, government, nonprofit organizations, and academia.

Pamela Weeks, Social Work, presented Promoting Health Attachment in Children in Out-of-Home Care at the 46<sup>th</sup> International Federation Internationale des Communautaires Educatives Congress in Glasgow, Scotland. FICE was founded in 1948 under the auspices of the United Nations Educational, Scientific and Cultural Organization and is a non-governmental organization maintaining consultative status with UNESCO, the Council of Europe, and United Nations Children's Fund.

## 21. Faculty Research Activities

Michael Andrykowski, Behavioral Science, \$162,210, Cognitive Behavioral Aspects of Cancer-Related Fatigue.

Phil Berger, Martin School of Public Policy, \$174,976, Worker Health and Safety Cooperative Agreement.

Paul Bummer, Pharmaceutical Technology, \$120,000, Solubilization Studies in Micellar and Mixed Micelle Systems.

Allan Butterfield, Chemistry, \$129,572, Calcium Regulation in Brain Aging and Alzheimer's Disease - Project 2.

Jason Carlyon, Microbiology, Immunology & Molecular Genetics, \$129,546, Inhibition of NADPH Oxidase by Anaplasma Phagocytophila.

Kuey Chen, Molecular and Biomedical Pharmacology, \$300,992, Calcium Regulation in Brain Aging and Alzheimer's Disease - Project 1.

Rebecca Collins, Pediatrics, Prospective Epidemiological Study of the Severity of Bronchiolitis in Infants Treated in Urgent/Emergent Care and Hospital Settings.

Leslie Crofford, Internal Medicine, \$10,800, Neuroendocrine Function in Fibromyalgia.

Gary Cromwell, AES/Animal Sciences, \$40,000, Shared Faculty Position with CSREES/USDA.

Daniel Dale, Physics and Astronomy, \$12,055, A Precision Measurement of the Neutral Pion Lifetime.



Patrick Deluca, Pharmaceutical Technology, \$103,000, Development of a Sustained Antiplatelet, Antimicrobial Delivery System for KSL Localized in the Oral Cavity.

Philip DeSimone, McDowell Cancer Network, A Phase III Randomized, Controlled Study to Evaluate the Safety and Efficacy on PANVAC-VF in Combination with GM-CSF Versus Best Supportive Care or Palliative Chemotherapy in Patients with Metastatic (Stage IV) Adenocarcinoma of the Pancreas.

Mark Dignan, Internal Medicine, \$31,402, American Indian/Alaska Native Initiative on Cancer.

Gary Ferland, Physics and Astronomy, \$12,000, Probing the High Redshift Universe with Quasar Emission Lines.

Don Gash, Magnetic Resonance Imaging Systems Center, \$984,159, Biomedical Imaging Equipment - High Fielded Strength MRI.

James Geddes, Spinal Cord and Brain Injury Research Center, \$182,394, Calcium Regulation in Brain Aging and Alzheimer's Disease - Project 4.

Dean Harvey, Faculty Research and Development, \$150,000, Central Kentucky Innovation and Commercialization.

Jennifer Havens, Behavioral Science, \$111,491, Nine County Adult Drug Court Evaluation - Year 3.

David Hildebrand, AES/Agronomy, \$52,000, Reduction of Saturated Fatty Acid Content of Soybean Oil.

Rick Honaker, Mining Engineering, \$17,000, Testing of the CerWat Filter for Coal Dewatering.

Michael Jay, Pharmaceutical Technology, \$20,000, Lowering Drug Costs through a New Manufacturing Paradigm.

Pradeep Kachroo, AES/Plant Pathology, \$50,000, Glycerolipid Metabolism and Its Role in Plant Defense.

Paul Kearney, Surgery, A Phase 3, Multicenter, Randomized, Placebo-Controlled, Double-Blind, Three-Arm Study to Evaluate the Safety and Efficacy of Tifacogin (Recombinant Tissue Factor Pathway Inhibitor) Administration in Subjects With Severe Community-Acquired Pneumonia.

Marwan Khraisheh, Mechanical Engineering, \$12,000, CAREER: Integrated Approach To Superplastic Forming Advanced Materials: REU Supplement.

Philip Landfield, Molecular and Biomedical Pharmacology, \$333,925, Calcium Regulation in Brain Aging and Alzheimer's Disease - Project 3.

Laurie Lawrence, AES/Animal Sciences, \$44,928, Effect of Diet on Horses with Cushing's Disease.

Xin Ma, Curriculum and Instruction, \$3,860, Hong Kong PISA 2003 Project Thematic Report.

Linda Martin, Geography, \$12,000, Fluvio-karst Landscape Whole-System Sensitivity to Land Use Influences, Kentucky River, Ky.

Robert McKnight, Southeast Center for Agricultural Health and Injury Prevention, \$169,022, Kentucky Migrant Vocational Rehabilitation Project.

David Moliterno, Internal Medicine, Tirofiban Evaluation of Novel Dosing vs. Abciximab with Clopidogrel and Inhibition of Thrombin Study.

Helieh Oz, Internal Medicine, \$183,179, Green Tea Polyphenols: A Novel Approach to IBD.

Subba Palli, AES/Entomology, \$260,033, Molecular Analysis of Juvenile Hormone Action in *Heliothis Verecens*.

Paul Pearson, Ophthalmology, Standard Care Versus Corticosteroid for Retinal Vein Occlusion (SCORE) Study.

Nada Porter, Molecular and Biomedical Pharmacology, \$258,884, Calcium Regulation in Brain Aging and Alzheimer's Disease - Core B.

Kozo Saito, Mechanical Engineering, \$42,905, Feasibility study for seed characterization on painted car shells.

Michael Samuels, Rural Kentucky Healthcare, \$75,565, Establish a Kentucky Health Data Council.

Mark Schneider, Kentucky Injury Prevention and Research Center, \$280,000, Development of Interactive Web-based Materials on Agroterrorism Preparedness and Response.

Suzanne Smith, Mechanical Engineering, \$20,000, Research Collaborative Grant (RCG) Proposal: Planning Grant for Establishing an Engineering Research Center (ERC) for Unmanned Aerial Vehicles at the University of Kentucky.

Jeffrey Talbert, Martin School of Public Policy, \$15,167, Health Administration Traineeship Grant.

Bruce Walcott, Electrical and Computer Engineering, \$200,000, Computer Science, Engineering, and Mathematics Scholarship Program.

Kenneth Warlick, Interdisciplinary Human Development Institute, \$250,000, ILSSA NJ.

Kenneth Warlick, Interdisciplinary Human Development Institute, \$53,109, ILSSA DC 1.

Fuqian Yang, RCTF Materials Science, \$15,864, Deformation Behavior of Nafion Membrane: Effect of Temperature.

Michael Zgoda, Internal Medicine, Endobronchial Valve for Emphysema Palliation Trial.