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The end of jet lag?

Study: Temperature changes can affect our biological clocks

By Terisa Shiple

Getting over jet lag may be as simple as changing the temperature — your brain temperature, that is.

A theory proposed by Erik Herzog, Ph.D., assistant professor of biology in Arts & Sciences, has found that the biological clocks of rats and mice respond directly to temperature changes.

Biological clocks, which drive circadian rhythms, are found in almost every living organism. In mammals, these clocks are responsible for 24-hour cycles such as sleep-wake, food intake and mating.

The SCN, located above the roof of the mouth in the hypothalamus, is normally synchronized to local time by light signals carried down the optic nerves. Herzog worked directly with mice SCN cells located in vitro, grown in a dish. Herzog's findings were recently published in the Journal of Neuroscience.

"We found that we can rapidly change the phase of the pacemaker — we can shift its timing to a new time zone," Herzog said. "This paper shows for the first time that we can take control of the clock in a dish. We can tell it what time we want it to think it is."

His work was funded by the National Institute of Mental Health.

The findings have significant implications. If brain temperature can be controlled, travelers who never again have to deal with jet lag, shifting to a new time zone might be accomplished with relative ease.

Herzog said that brain temperature is relatively immune to environmental temperature, but can be affected by bursts of physical activity, fever, nursing, or a dose of aspirin or melatonin, a drug already used to lessen the effects of jet lag.

In his study, Herzog first needed to establish that the SCN would function normally over a wide range of constant temperatures. He tested the cells in a range from 24 degrees Celsius to 37.0 degrees Celsius. With such change in temperature, the SCN cells continued to operate like a clockwork.

"Just like a good watch, the SCN needs to be accurate over a range of temperatures," Herzog said. "Your wristwatch would be of no use to you if it sped up when you were cold or slowed down when you were hot. Biological clocks work the same way."

"Amazingly enough, the SCN can oscillate over a wide range of temperatures."

But Herzog was keeping the cells in constant temperature and, he noted, this is not the way your brain really works. Normally, the body responds to temperature changes. But, he said, "the brain really works. Normally, this feature will be included in the 2003 volume of the Record in observance of Washington University's 150th anniversary.

See Clocks, Page 6

Unveiling a portrait of Uncas A. Whitaker at the Oct. 20 dedication of Uncas A. Whitaker Hall for Biomedical Engineering are (from left) William H. Denforth, chancellor emeritus and vice chairman of the Board of Trustees; David W. Kemper, vice chairman of the Board of Trustees; G. Burt Holmes, chair of The Whitaker Foundation; and Chancellor Mark S. Wrighton.

Uncas A. Whitaker Hall dedicated

By Tony Fitzpatrick

The dedication of Uncas A. Whitaker Hall for Biomedical Engineering Oct. 20 was a major step forward in a plan begun more than a decade ago to launch a nationally prominent department in this rapidly growing field.

It also crystallizes the ongoing collaboration of researchers in the University's School of Engineering & Applied Science and the School of Medicine, which started more than 40 years ago.

"The schools of engineering and medicine have experienced a great tradition of working together in this dynamic field, and it is a privilege to dedicate this facility to teaching and research in biomedical engineering," Chancellor Mark S. Wrighton said. "We are greatly indebted to The Whitaker Foundation and to the Danforth Foundation for their significant support in providing the lead gifts for this building."

Whitaker also expressed his gratitude for the many additional supporters of Whitaker Hall.

Participants in the ceremony included University Trustee Stephen F. Braun, chairman and chief executive officer of Hunter Engineering and former U.S. Ambassador to Belgium, who delivered the keynote address; G. Burt Holmes, O.D., chairman of the board of The Whitaker Foundation; and Y.C. Fung, Ph.D., professor emeritus of mechanical engineering at the University of California, San Diego, widely known as the "father of biomechanics."
Environmental Initiative ‘Colloquium on Energy’ Oct. 31

By ROBERT BATTERSON

A “Colloquium on Energy” will be held from 10 a.m. to noon Oct. 31 at the Charles F. Knight Executive Education Center.

The symposium is part of the University’s Environmental Initiative, an effort to help better understand the role that research universities can play in addressing issues related to the environment.

The colloquium is co-sponsored by the Program on “Alternative Energy Sources: The Indian Context,” will be presented by S.P. Subahatte, chair of the Atomic Energy Regulatory Board in India and professor emeritus and former director of the Indian Institute of Technology in Bombay.

Subahatte is known for his outstanding contributions both in teaching and research, in the areas of heat transfer and energy.

He is the author of nearly 70 academic articles and two widely known textbooks.

As the director of the Indian Institute of Technology, Subahatte took the initiative in establishing schools in management and information technology. He took over as the chairman of India’s Atomic Energy Regulatory Board in January 2000.

A panel discussion on energy-related issues will follow the keynote lecture.

University panelists will be Pratim Biswas, Ph.D., the Still and Quinette Jess Professor in chemical engineering; Ambar Rad, Ph.D., the Foust Distinguished Professor of Marketing; and Jereon Swinkels, Ph.D., the August A. Busch Jr. Distinguished Professor of Managerial Economics and Strategy.

Other panelists will include Deborah Chelette, director of the Missouri Botanical Garden’s Gateway Center for Resource Efficiency; Dennis Houston, executive vice president of Exelon-Mobil Refining and Supply; Marilyn L. Trowe, vice president of Ameren U.E.; and Jason Makansi, president of Pearl Street Inc.

The colloquium is open to the public.

The event is open to the public, but attendance is limited.

Register by e-mailing corp-inf@slu.edu or calling 935-6300.

For more information, go online to env.wustl.edu/seminars/abstracts/subahatte01.htm.

George Eberle to lecture for Grace Hill’s 100th anniversary

By JESSICA MARTIN

George Eberle, former president and chief executive officer of Grace Hill Settlement House and Health Center, will lecture on “The Impact of Professionalism and Elitism on Neighborhood Capacity Building From the Settlement House Perspective” at 1:10 p.m. Oct. 30 in Brown Hall Lounge.

The lecture is co-sponsored by Grace Hill and the George Warren Brown School of Social Work in honor of Grace Hill’s 100th anniversary.

After Eberle’s keynote address, there will be a panel discussion featuring representatives from the audience.

T.S. Eliot Lecture: author Cannadine Nov. 10

Author David Cannadine will be the featured speaker at the fourth annual T.S. Eliot Lecture in St. Louis at 4:30 p.m. Nov. 10 in Holmes Lounge.

The title of his talk will be “Churchill and America.” In his presentation, he will be the featured speaker at the fourth annual T.S. Eliot Lecture in St. Louis.

Cannadine is the first Queen’s Professor of History, and will explore St. Louis and St. Louis University panelists, scholars or other public figures.

The lecture is free and open to the public. Call 935-4000 to register.

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Tour of Hope team promotes cancer research and clinical trials

BY KIMBERLY LEYDIG — PHOTOS BY BOB BOSTON

Armstrong visits Siteman Cancer Center

Five-time Tour de France champion Lance Armstrong insists he's not a hero.
"A hero is a person who's perfect — and I'm far from perfect," Armstrong says. "Cancer is a bastard. If it wants to take the biggest, strongest, fittest guy, it will. Athletes aren't in the spotlight forever; I have a small window. Now is my time to tell my story and make a difference in the world."

Armstrong’s stunning recovery culminated in his winning the 1999 Tour de France. Since then, he’s won the grueling three-week race four more times, tying the record.

"If (cancer) wants to take the biggest, strongest, fittest guy, it will. Athletes aren't in the spotlight forever; I have a small window. Now is my time to tell my story and make a difference in the world."

Armstrong has chosen to include the Siteman Cancer Center. Hopefully, this event will encourage more people to participate in cancer research.

According to the National Cancer Institute, up to 90 percent of children with cancer enroll in clinical trials, but fewer than 5 percent of adults participate.

Current cancer trials involve more than 2,000 patients each year. The center also has more than $100 million in annual cancer-related research funding.

Tour of Hope cyclist Eric Miller knows that participating in a clinical trial can mean the difference between life and death. Miller’s son, Garrett, was diagnosed with a malignant brain tumor when he was a baby. "I was watching him play T-ball one day and the next day he was having brain surgery," Miller says.

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According to the National Cancer Institute, up to 90 percent of children with cancer enroll in clinical trials, but fewer than 5 percent of adults participate.

Tour of Hope rides are a tribute to the heroes before him who participated in cancer research.

Winning the Tour de France makes Lance a champion," Eberlein says. "But what he does for cancer survivors makes him a hero."
Shakespeare's Othello Nov. 2
Aquila Theatre Company to open 31st Edison Theatre OVATIONS! Series

By LAM OTTEN

A traitorous friend, an innocent accused, a noble soul condemned to death, a woman mistreated and maltreated. The tragedy of Othello, performed in 1606, remains one of William Shakespeare's darkest, most compelling plays. The depiction of the power and anxiety all of the roles in society)

Next month, the Aquila Theatre Company, one of New York's finest producers of touring classical drama, will launch the 2006-2007 Edison Theatre OVATIONS! Series with a new adaptation of Othello set on a military base on modern-day Cyprus.

Aquila's production, created by Aquila associate artistic director Robert Richmond and director Peter Meineck, combines the Bard's peerless language with an original score, immersive set design and epic film, like visual flair.

A special one-night-only performance is scheduled Nov. 2 and is part of Shakespeare's Othello Festival, a nationwide, 100/community touring festival sponsored by the National Endowment for the Arts and The Salle Mae Fund in cooperation with Arts Midwest, Othello, a Moor and mercenary for the Venetian army, has secretly married Desdemona, daughter of a powerful senator. Othello's trusted enmity — emosis of Othello's success defends Cyprus against Turkish attack and endangers the Venetian Republic's pastoral – plants seeds of doubt about Othello's fidelity in Othello's mind.

Meanwhile, with Machiavellian cunning, Iago, Othello's lieutenant, plots to create enmity between Othello and another Moor, Cassio. The Aquila Theatre Company was founded by Meineck in London in 1991 and is a professional company in residence at the Center for Ancient Studies at New York University. Comprising both British and American players, the troupe is noted for their critical and academic acclaim worldwide, with extensive touring throughout Europe, the United States and Canada and special performances at such venues as the British Museum, the McNay Art Museum and the Folger Shakespeare Library.

Aquila's many honors include the prize for Dramatic Excellence from the Greek government and several prestigious British Council touring awards. The Aquila Education Program has been presented at more than 150 North American universities and institutions. Its original translations of Greek plays are published by Hackett Press.

Aquila made its debut at 2002 in Edison Theatre with Shakespeare's The Tempest and The Winter's Tale, which recently Homier's The Illiad during World War II and political statements have already appeared included Acquaintances (1991); Aces (1992); Gandhism (1993); Jodei and King Lear (1997-98); The Odyssey/The Comedy of Errors/Damn/Pericles/Timura (1999-2000). Visit Nothing/Byzantium (2000-01). Edison Theatre programs are supported by the Missouri Arts Council, a state agency, and the Regional Arts Commission, St. Louis.

Tickets are available at the Edison Theatre Box Office and through all Edison Theatre events. For more information on the Aquila Theatre Company, visit www.aquila.org.

Kathryn Merry plays Desdemona and Lloyd Notice portrays the title character in the Aquila Theatre Company's production of Othello, which will launch the 31st Edison Theatre OVATIONS! Series.

Earth Under Stress - Putting Atoms Together - Gender Pay Gap

By NADEEM JAHANGIR

Achalmed civil and human rights activist Dick Gregory will deliver the Black Arts & Sciences Festival Lecture on part of the Assembly Series at 11 a.m. Oct. 29 in Graham Chapel. Gregory, 75, has more than 400 achievements in the field of human rights. Using unique means of nonviolent social protest, he has mobilized support of global human rights. Using his entertain-

"But Shakespeare applied the same methods to the characters on modern-day bases, and"...
Scrap Arts Music will return to the University Nov. 1 to launch Edison Theatre's 2003-04 ova-
tions for young people series.
The Vancouver-based percussi-
on assembly performances on instruments built from recycled and salvaged materials.

***

**Scrap Arts Music**

**Materials and Techniques**

- Scrap Metals and Tools
- Recycled Glass and Ceramics
- Found Objects
- Natural Materials

**Instruments**

The ensemble performs on instruments made from recycled materials, utilizing techniques such as: cutting, drilling, bending, and shaping. The instruments are created through processes that involve repurposing and recycling materials, resulting in unique sounds that reflect the history and stories embedded in the discarded objects.

**Performance Style**

The performances are characterized by a blend of traditional and contemporary music styles, incorporating elements of jazz, rock, and world music. The ensemble's music is often improvised, allowing for a dynamic and responsive interaction with the audience. The use of found objects as instruments adds a layer of sonic diversity and creativity to the music, highlighting the potential of recycling and sustainability in the arts.

**Educational Elements**

Scrap Arts Music offers educational workshops and residencies that engage students in hands-on activities, teaching them how to create musical instruments from recycled materials. These workshops aim to foster a sense of environmental stewardship and encourage creativity.

**Community Engagements**

The ensemble is known for its community engagements, performing at schools, community centers, and other venues to promote sustainability and environmental awareness. Through these performances, Scrap Arts Music aims to inspire and educate audiences about the importance of recycling and reusing materials.

**Awards and Recognitions**

- **Local Community Award** (2019) for Outstanding Environmental Contribution
- **Arts Education Grant** (2023) from the City of Victoria
- **Environmental Champion** (2022) by the Regional District of Nanaimo

**Contact Information**

- **Website**: scrapartsmusic.com
- **Email**: info@scrapartsmusic.com
- **Phone**: 123-456-7890

**Upcoming Performances**

- **November 1, 2023**: Edison Theatre, Victoria, BC
- **December 20, 2023**: Eco Fest, Nanaimo, BC

For more information, visit scrapartsmusic.com.
Author, critic Stanley Crouch to host W.E.B. Du Bois forums

By LILY OTTEN

A author, critic and commentator Stanley Crouch will be in St. Louis on Thursday, Oct. 30, at 7:30 p.m. at St. Louis University to discuss the life and work of W.E.B. Du Bois, the father of the modern movement for African-American rights.

Crouch will discuss Du Bois' two novels, "The Souls of Black Folk" and "Black Bourgeoisie," and his political ideals, particularly how those themes reflect current issues.

"Du Bois was a man who wanted to be a historian," said Crouch in a phone interview. "And he was a man who wanted to be a prophet. He was both a historian and a prophet for the African-American race."


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Introducing new faculty members

The following are among the new faculty members at the University. Their work will be introduced periodically in this space.

Peter S. Hovmand, Ph.D., joins the George Warren Brown School of Social Work as assistant professor. He earned a master’s degree in social work and an interdisciplinary degree in social work and health services at the University of Michigan. Hovmand received his doctorate in social work and psychology from the University of Michigan in 2001. Prior to joining GWWB, Hovmand was a program manager at the Center for Mental Health Services Research at GWWB and a postdoctoral research fellow with the Center for Mental Health Services Research at the University of Missouri.

Deborah M. Megivern, Ph.D., joins the George Warren Brown School of Social Work as assistant professor. She earned a master’s degree in social work and a Ph.D. in personality psychology from Michigan State University. In 2002, she joined the faculty of the Department of Psychology at Michigan State University. Megivern’s research focuses on the social environments and system dynamics, research and a male outreach coordinator for social work.

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Campus Authors

Joel Seligman, J.D., dean of the School of Law and the Ethan A.H. Shepley University Professor


By Joel Seligman, J.D.

(Asnip Publishers, 2003)

Seligman

The Transformation of Wall Street, Joel Seligman once again draws on extensive personal interviews to provide a comprehensive examination of the origins, accomplishments, successes and failures of the SEC, from its creation to the Sarbanes-Oxley Act.

From the book jacket

The third edition of The Transformation of Wall Street is available at the Campus Store in Mallinckrodt Student Center (935-5500) and the Washington Campus Library (362-3240) in the McDonnell Pediatric Research Building.

Whitaker

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Notables

Michael L. McDanel, Ph.D., professor of pathology and immunology, has received a one-year, $45,000 Postdoctoral Fellowship Award from the American Diabetes Association.

Christopher Nichols, M.D., research fellow, has received a one-year, $330,957 grant from the American Society for Surgery of the Hand for research titled “Determinants of Motor Neuron Pathway Specificity”.

Lingchei Letty Chen, Ph.D., assistant professor of Asian and near eastern languages and literatures in Arts & Sciences, has received a three-year, $260,000 grant from the National Science Foundation for research titled “System Identification of Force Generation as a Tool for Analyzing Dynamic Environments.”

Lihuo Xu, Ph.D., assistant professor of computer science in engineering, has received a three-year, $202,152 grant from the National Science Foundation for research titled “Virtual Reality and Combinatorial Optimization: A New Interface for Engaging the Spatial and Temporal Dimensions of the Real Importance of Different Design and Control Mechanisms at Volcanic Area.”

Sally A. Goldman, Ph.D., assistant professor of computer science in engineering, has received a three-year, $314,999 grant from the National Science Foundation for research titled “Applying Multiple-Instance Learning to Bioinformatics.”

Macine Lepidus, J.D., professor of law, has received a one-year, $60,000 grant from the Educacional Foundation for America for research titled “Art Quality Project.”

Cheyong Lu, Ph.D., assistant professor of computer science and engineering, has received a three-year, $499,957 grant from the National Science Foundation for research titled “TR: Collaborative Research: High Performance Data Analysis for Wireless Sensor Networks.”

Carolyn J. Anderson, Ph.D., associate professor of radiology, has received a one-year, $82,000 grant from the National Cancer Institute for research titled “Targeting Matrix Metalloproteases for Tumor Imaging.”

Obituary

Martin L. Oftedahl, former supervisor of the undergraduate chemistry laboratories at the University, died Monday, Oct. 13, 2003, of renal failure at his home in Warson Woods, Mo. He was 72.

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RECORD

Shirley J. Dyke's research sends vibrations across the world in the fields of structural dynamics and control

BY TONY FOTZEPIDOU

Shirley J. Dyke

Shirley J. Dyke's research sends vibrations across the world in the fields of structural dynamics and control

A real mover & shaker

Shirley J. Dyke's research sends vibrations across the world in the fields of structural dynamics and control

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Shirley J. Dyke is a professor of civil engineering and director of the Structural Control and Earthquake Engineering Laboratory, located in a four-story building in the city of St. Louis. She has been a professor at Washington University since 1980 and is currently a professor of civil engineering. She is also the director of the St. Louis Earthquake Engineering Research Center, which is a part of the National Science Foundation's Earthquake Engineering Research Centers program.

Shirley J. Dyke's research focuses on the development of new techniques for earthquake-resistant design. She is particularly interested in the use of structural control systems to reduce the effects of earthquakes on buildings. She is a member of the American Society of Civil Engineers and the Institute of Electrical and Electronics Engineers.

In addition to her research, Shirley J. Dyke is also involved in teaching. She teaches courses in structural dynamics and control and is the advisor for several graduate students. She is a member of the faculty at Washington University in St. Louis and is a recognized expert in the field of structural engineering.

Shirley J. Dyke's research has been recognized with several awards, including the National Science Foundation CAREER Award and the Presidential Early Career Award for Scientists and Engineers. She is also a fellow of the American Society of Civil Engineers.

Shirley J. Dyke is a member of several professional organizations, including the American Society of Civil Engineers, the Structural Dynamics and Control Society, and the Institute of Electrical and Electronics Engineers.

Shirley J. Dyke's research has been cited in many scientific publications and has been presented at numerous conferences. She is a recognized expert in the field of structural engineering and is often invited to speak at conferences and universities around the world.

Shirley J. Dyke's research has had a significant impact on the field of structural engineering. Her work has led to the development of new techniques for earthquake-resistant design and has been used to design new buildings and retrofit existing structures to make them more earthquake-resistant.

Shirley J. Dyke's research has also had a significant impact on the education of future engineers. She is an active researcher and teacher, and her work has been recognized with numerous awards and honors. She is a respected leader in the field of structural engineering and is widely regarded as one of the top researchers in the world.

Shirley J. Dyke is a true mover and shaker in the world of structural engineering, and her work continues to have a significant impact on the field. She is a true inspiration to all who are interested in the field of structural engineering and is a true pioneer in the world of structural engineering.