

Date: June 17, 2008  
 Contacts: Janet Hunziker, NAE Senior Program Officer  
 202-334-1571; e-mail <jhunziker@nae.edu>  
 Randy Atkins, NAE Senior Media Relations Officer  
 202-334-1508; e-mail <atkins@nae.edu>

## FOR IMMEDIATE RELEASE

CREATIVE YOUNG ENGINEERS SELECTED TO PARTICIPATE IN  
NAE'S 2008 U.S. FRONTIERS OF ENGINEERING SYMPOSIUM

WASHINGTON -- Eighty-two of the nation's brightest young engineers have been selected to take part in the National Academy of Engineering's (NAE) 14th annual U.S. Frontiers of Engineering symposium. The 2½-day event will bring together engineers ages 30 to 45 who are performing exceptional engineering research and technical work in a variety of disciplines. The participants -- from industry, academia, and government -- were nominated by fellow engineers or organizations and chosen from more than 230 applicants.

"America's competitiveness will largely depend upon the next generation of innovators," said NAE President Charles M. Vest. "The U.S. Frontiers of Engineering program brings some of the country's rising-star engineers, from a diverse range of disciplines, together for an exchange of ideas that will surely help contribute to keeping us at the forefront of technological advancement and may even spark a breakthrough that changes the way we live."

The symposium will be hosted Sept. 18-20 by Sandia National Laboratories at the University of New Mexico in Albuquerque, and will examine emerging nanoelectronic devices, cognitive engineering, drug delivery systems, and understanding and countering the proliferation of weapons of mass destruction. A featured speaker will be Alton D. Romig Jr., senior vice president and deputy director for integrated technologies and systems, Sandia National Laboratories. Dr. Romig leads Sandia's engineering and development activities for U.S. programs in nonproliferation, counterintelligence, security, energy and resources, and infrastructure. His expertise in materials science garnered him the National Materials Advancement Award, and he is a member of the NAE.

The following engineers were selected as general participants:

BRYAN ADAMS	iRobot Corp.
HOLGER AMORT	Arkema Inc.
JOSE ANDRADE	Northwestern University
SHELLEY ANNA	Carnegie Mellon University
RALPH ANTHENIEN	Army Research Office
SASAN BAKHTIARI	Argonne National Laboratory
ALEXANDRE BAYEN	University of California, Berkeley
IGOR BENKO	Sun Microsystems Inc.
NICOLE BLUTE	Malcolm Pirnie Inc.
ALEXANDRIA BOEHM	Stanford University
JOSHUA BOLTZ	CH2M HILL
JOSH BONGARD	University of Vermont
DONALD BOTT	Xerox Corp.
MAGGIE BYNUM	Agilent Laboratories
KIRK CAMERON	Virginia Tech
JONATHAN CAULKINS	Carnegie Mellon University
LEO CHIANG	Dow Chemical Co.
MUNG CHIANG	Princeton University
TUSHAR CHOUDHARY	ConocoPhillips Co.
CATHERINE CORRIGAN	Exponent Inc.
LEVENT DEGERTEKIN	Georgia Institute of Technology
TIM DENISON	Medtronic Inc.
CHRISTOPHER DOERR	Alcatel-Lucent, Bell Labs
AMY DUWEL	Charles Stark Draper Laboratory
THOMAS EPPS	University of Delaware
MALCOLM FABIYI	Praxair Inc.
ROY FIELDING	Day Software, Inc.
TIM FRAZIER	Cummins Inc.
CHRIS GEARHART	Ford Motor Co.
KATHLEEN GILLESPIE	General Motors Corp.
ALEX GOROKHOV	Qualcomm Inc.
MICHAEL GRAHAM	University of Wisconsin, Madison
JAMES GREGORY	Ohio State University
LOUISE HAMLIN	NASA Jet Propulsion Laboratory
MITRA HARTMANN	Northwestern University
KATHERINE HERRICK	Raytheon Co.
INSEOK HWANG	Purdue University
MICHAEL ISARD	Microsoft Research
PAUL JACOB	MMI Engineering Inc.
HAMID JAFARKHANI	University of California, Irvine
ZHENHUA JIANG	University of Miami
VANJA JOSIFOVSKI	Yahoo! Inc.
ANNIE KAMMERER	Nuclear Regulatory Commission
PAUL KENIS	University of Illinois at Urbana-Champaign
BRIAN KIRBY	Cornell University
MAYURESH KOTHARE	Lehigh University
ROBERT LELAND	Sandia National Laboratories
GUIFANG LI	University of Central Florida
REECE LUMSDEN	Boeing Co.
ZHENGXIANG MA	FutureWei Technologies Inc.
ELLEN MANGAN	MathWorks Inc.
RUSSELL MELLER	University of Arkansas
KAREN MILLER	Drexel University
RAYMOND MORAN	PB Americas Inc.
VIVEK NARASAYYA	Microsoft Research
PATRICK O'MARA	STV Inc.
MATTEO PASQUALI	Rice University
MICHAEL PICCIOLO	SAIC
MARK PRAUSNITZ	Georgia Institute of Technology
AMY PRUDEN	Colorado State University
CHRISTOPHER SCHUH	Massachusetts Institute of Technology
JEFFREY SCRUGGS	Duke University
JAYSHREE SETH	3M Co.
MARCUS SHAW	Aerospace Corp.
ANDREW SINGER	University of Illinois at Urbana-Champaign
JAMES SINGLETARY	DuPont Co.
ERIC SMITH	Pacific Northwest National Laboratory
NARAYAN SRINIVASA	HRL Laboratories LLC
SHAUN SULLIVAN	Ingersoll-Rand Co. Ltd.
MARK SWIHART	University at Buffalo (SUNY)
JOSE TABORA	Bristol-Myers Squibb Co.
ICHIRO TAKEUCHI	University of Maryland
HONG TANG	Yale University
JASON TRACHEWSKY	Broadcom Corp.
ANDREW TSOURKAS	University of Pennsylvania
STEPHEN UFTRING	Massachusetts Institute of Technology
OMAR VARELA	ExxonMobil Upstream Research Co.
CARLO WILLIAMS	Corning Inc.
PETER WINZER	Alcatel-Lucent, Bell Labs
JIHUI YANG	General Motors Research & Development Center
JI-CHENG ZHAO	Ohio State University
MICHELLE ZHOU	IBM Thomas J. Watson Research Center

Speakers at this year's event are:

CHARLES BEAMES	USSTRATCOM Center for Combating Weapons of Mass Destruction
ANN BISANTZ	University at Buffalo
RONALD BORING	Idaho National Laboratory
XIAOHU GAO	University of Washington
STEPHANIE GUERLAIN	University of Virginia
JEFFREY HRKACH	BIND Biosciences Inc.
ALI JAVEY	University of California, Berkeley
JOHN LEE	University of Iowa
JOSEPH MARTZ	Los Alamos National Laboratory
SAMIR MITRAGOTRI	University of California, Santa Barbara
STEVEN NIXON	Office of the Director of National Intelligence
MIHRI OZKAN	University of California, Riverside
DANIEL PACK	University of Illinois at Urbana-Champaign
JEFF WELSER	IBM and SRC Nanoelectronics Research Initiative
NIKOLAI ZHITENEV	National Institute of Standards and Technology

The organizers of the 2008 symposium are:

BARRETT CALDWELL	Purdue University
JIA CHEN	IBM Corp.
J. SCOTT GOLDSTEIN	SAIC
WILLIAM GRIECO	PetroAlgae LLC
EFROSINI KOKKOLI	University of Minnesota
JULIA PHILLIPS	Sandia National Laboratories
KIM VICENTE	University of Toronto
VICTOR ZHIRNOV	Semiconductor Research Corp.

Sponsors for the 2008 U.S. Frontiers of Engineering are the Air Force Office of Scientific Research, Defense Advanced Research Projects Agency (DARPA), Department of Defense (DDR&E-Research), the National Science Foundation, Corning Inc., Cummins Inc., The Grainger Foundation, Intel Corp., Microsoft Research, Sun Microsystems Inc., Sandia National Laboratories, and numerous individual donors.

The National Academy of Engineering is an independent, nonprofit institution that serves as an adviser to government and the public on issues in engineering and technology. Its members consist of the nation's premier engineers, who are elected by their peers for their distinguished achievements. Established in 1964, NAE operates under the congressional charter granted to the National Academy of Sciences in 1863.

A meeting program and more information about Frontiers of Engineering is available at <<http://www.nae.edu/frontiers>>.

# # #

[This news release is available at <[www.nationalacademies.org](http://www.nationalacademies.org)>.]