

ENGINEERING
RESearch
CENTERS



2009
Annual Meeting
ATTENDEES

NATIONAL SCIENCE FOUNDATION



Ms. Esther Bolding
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Ms. LaTanya Brooks
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ENG/EEC



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BFA/DGA



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ENG/EEC



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ENG/IIP



Dr. Daniel De Kee
ERC Program Director
ENG/EEC



Dr. Leon Esterowitz
Program Director
ENG/CBET



Ms. Jamie French
Team Leader
ENG/OPP

NATIONAL SCIENCE FOUNDATION *cont'd*



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ENG/EEC & EECS



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Science Writer-Editor
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ENG/CBET



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IT Cluster Leader
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Infrastructure Cluster Leader
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Communications Consultant



Ms. Sharon L. Middendorf
Programs Specialist
EEC

NATIONAL SCIENCE FOUNDATION *cont'd*



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GEO/ATM



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Precollege Education & RET
ENG/EEC



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Deputy Division Director (Centers)
ERC Program Leader
ENG/EEC



Dr. Sohi Rastegar
Director
ENG/EFRI Office



Dr. Allen L. Soyster
Division Director
ENG/EEC



Ms. Shalika Walton
Program Specialist
ENG/EECS



Dr. Andreas Weisshaar
Program Director
ENG/EECS

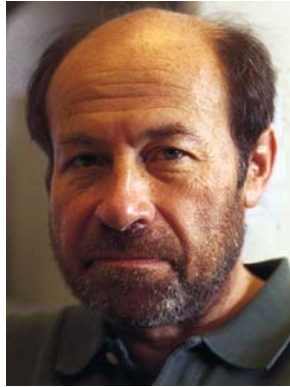


Mr. Charles Zeigler
Special Assistant
NSF/ BFA

Engineering Research Center for Integrated Access Networks (CIAN)



Dr. Nasser Peyghambarian
Center Director
University of Arizona



Dr. Yeshaiahu Fainman
Deputy Director
University of California at San Diego



Dr. Eugene Cochran
Administrative Director
University of Arizona



Dr. Meredith Kupinski
Education Director
University of Arizona



Dr. Supapan Seraphin
Pre-college Education Director
University of Arizona



Dr. Arlene Maclin
Diversity Director
University of Arizona



Dr. Robert Norwood
Industrial Collaboration & Innovation Director
University of Arizona



Dr. Alan Willner
Thrust 1 Co-Lead
Norfolk State University



Dr. Hyatt Gibbs
Thrust 3 Co-Lead
University of Arizona

Engineering Research Center for Integrated Access Networks (CIAN) *cont'd*



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Faculty Member
University of Arizona



Mr. Louis Lome
Consultant
Independent Contractor



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SLC
University of Arizona



Ms. Caroline Lai
SLC
Columbia University



Ms. Dawn Tan
SLC
University of California at San Diego

Synthetic Biology Engineering Research Center (SynBERC), est. 2006



Dr. Jay Keasling
Center Director
University of California at Berkeley



Mr. Kevin Costa
Administrative Director
University of California at Berkeley



Mr. Fernando Del Rosario
Administrative Analyst
University of California at Berkeley

Synthetic Biology Engineering Research Center (SynBERC) *cont'd*



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Research Director &
Industrial Liaison Officer
University of California at Berkeley



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Education & Outreach Director
University of California at Berkeley



Ms. Kate Spohr
Education & Outreach Manager
University of California at Berkeley



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iGEM Program Coordinator
University of California at
San Francisco



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Prairie View A&M University



Mr. Josh Lilly
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Prairie View A&M University



Mr. Gautum Mukunda
SLC
Massachusetts Institute of Technology



Ms. Julie Norville
SLC
Massachusetts Institute of Technology

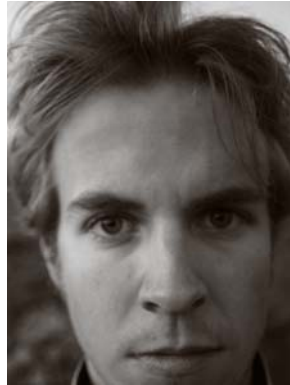


Ms. Alyssa Rosenbloom
SLC
University of California at Berkeley

Synthetic Biology Engineering Research Center (SynBERC) *cont'd*



Mr. Kevin Solomon
SLC
Massachusetts Institute of Technology



Mr. Reid Williams
SLC
University of California at San Francisco



The International Genetically Engineered Machine competition (iGEM) is the premiere undergraduate Synthetic Biology competition.

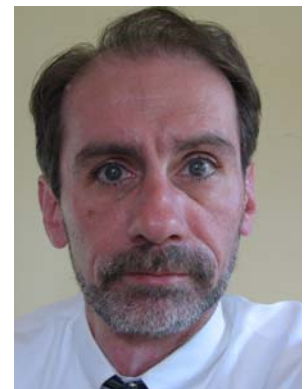
Quality of Life Technology ERC (QoLT-ERC), est. 2006



Dr. Takeo Kanade
Center Director
Carnegie Mellon University



Dr. Rory Cooper
Co-Director
University of Pittsburgh



Mr. Jim "Oz" Osborn
Executive Director
Carnegie Mellon University



Ms. Colleen Everett
Administrative Director
Carnegie Mellon University



Mr. Howard Wactlar
Research Co-Director
Carnegie Mellon University



Dr. Kathleen "Kate" Seelman
Research Co-Director
University of Pittsburgh

Quality of Life Technology ERC (QoLT-ERC) *cont'd*



Dr. Reid Simmons
Education Co-Director
Carnegie Mellon University



Dr. Dan Ding
Education Co-Director
University of Pittsburgh



Ms. Shelly Brown
Education & Outreach Coordinator
University of Pittsburgh



Ms. Mary Goldberg
Education & Outreach Coordinator
University of Pittsburgh



Mr. Curt Stone
Industrial Liaison Officer
Carnegie Mellon University



Ms. Alisha Cuniff
Research Coordinator
University of Pittsburgh



Dr. Richard Schulz
Thrust Leader
University of Pittsburgh



Dr. Dan Siewiorek
Thrust Leader
Carnegie Mellon University



Dr. Richard Simpson
Faculty Member
University of Pittsburgh

Quality of Life Technology ERC (QoLT-ERC) *cont'd*



Mr. Garrett Grindle
SLC
University of Pittsburgh



On July 2, 2009, the Quality of Life Technology (QoLT) Center's Foundry staged its third opportunity meeting in which interns presented business models resulting from the Foundry Process. The QoLT Foundry was established to accelerate the commercialization of re-

search from the QoLT ERC. After nearly eight weeks of research, validation and preparation, technology opportunities were presented by the Foundry's 2009 summer interns.

ERC for Extreme Ultraviolet Science and Technology (ERC EUV), est. 2003



Dr. Jorge Rocca
Center Director
Colorado State University



Dr. Margaret Murnane
Deputy Director
The University of Colorado—Boulder



Ms. Sheila Davis
Administrative Director
Colorado State University



Dr. Kaarin Goncz
Education Director
Colorado State University

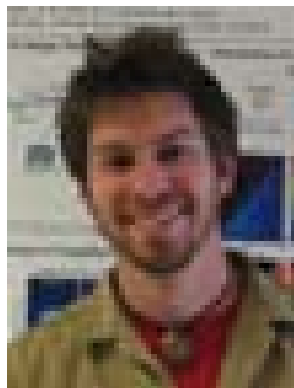


Dr. Carmen Menoni
Executive Committee
Colorado State University



Dr. Henry Kapteyn
Thrust Leader
The University of Colorado—Boulder

ERC for Extreme Ultraviolet Science and Technology (ERC EUV) *cont'd*



Mr. Scott Domingue
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Colorado State University



Mr. Craig Hogle
SLC
University of Colorado and JILA



Mr. David Kemp
SLC
Colorado State University



Ms. Robynne Lock
SLC
University of Colorado and JILA



Ms. Brittany McClinton
SLC
University of California at Berkeley



Our goal is to make EUV light, now mostly limited to a handful of large national facilities, available routinely in a broad variety of laboratory settings, for applications such as high-resolution imaging, spectroscopy, elemental- and bio-microscopy, and nano-fabrication.

Engineering Research Center for Biorenewable Chemicals (CBiRC), est. 2008



Dr. Brent Shanks
Center Director
Iowa State University



Dr. Basil Nikolau
Deputy Director
Iowa State University



Ms. Tonia McCarley
Administrative Director
Iowa State University

Engineering Research Center for Biorenewable Chemicals (CBiRC) *cont'd*



Dr. D. Raj Raman
University Education Program Director
Iowa State University



Dr. Adah Leshem-Ackerman
Pre-college Education Program Director
Iowa State University



Dr. Abhaya Datye
International Education Program Director
University of New Mexico



Dr. Peter Keeling
Industrial Liaison Officer
Iowa State University



Dr. Jacqueline Shanks
Co-Leader, Research Thrust 2
Iowa State University



Dr. Robert Davis
Leader, Research Thrust 3
University of Virginia



Ms. Basak Cinlar
SLC
Iowa State University



Ms. Sara Davis
SLC
University of Virginia



Mr. Christopher Leber
SLC
University of California—Irvine

ERC for Collaborative Adaptive Sensing of the Atmosphere (CASA), est. 2003



Prof. David McLaughlin
Center Director
University of Massachusetts



Prof. V. "Chandra" Chandrasekar
Deputy Director
Colorado State University



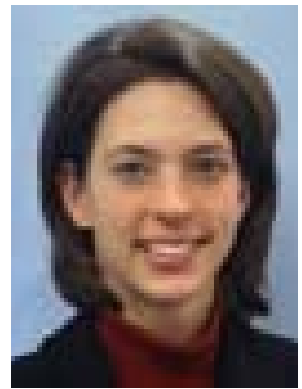
Prof. Michael Zink
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University of Massachusetts



Ms. Janice Brickley
Administrative Director
University of Massachusetts



Mr. Eric Knapp
Principal Engineer & Budget Director
University of Massachusetts



Dr. Paula Sturdevant Rees
Director of Education & Outreach
University of Massachusetts



Ms. Heather Bell
Industrial Liaison Officer
University of Massachusetts



Mr. Herath "Dilum" Bandara
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Colorado State University



Mr. Brendan Hogan
SLC
University of Virginia

ERC for Collaborative Adaptive Sensing of the Atmosphere (CASA) *cont'd*



Mr. Anthony Hopf
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University of Massachusetts



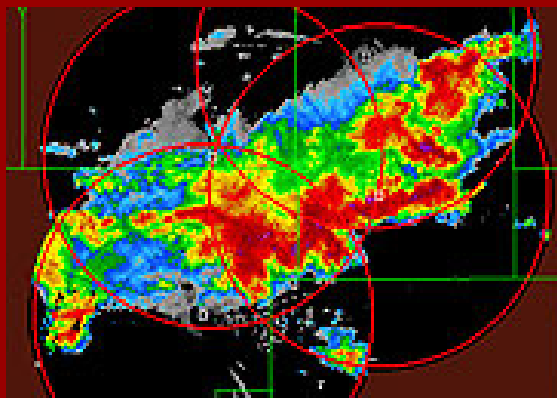
Ms. Ogechi Ibe
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University of Massachusetts Amherst



Mr. Alexander Schenkman
SLC
University of Oklahoma



Mr. Delbert Willie
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Colorado State University



The Center for Collaborative Adaptive Sensing of the Atmosphere (CASA) is developing a network of radars that will improve forecast and warning time for severe-weather hazards that form close to the ground

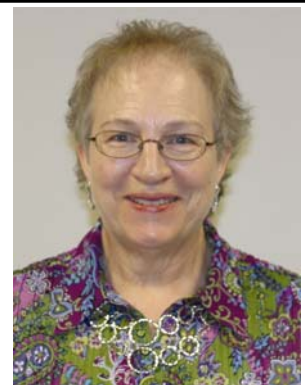
Center for Wireless Integrated MicroSystems (WIMS), est. 2000



Dr. Kensall "Ken" Wise
Center Director
The University of Michigan

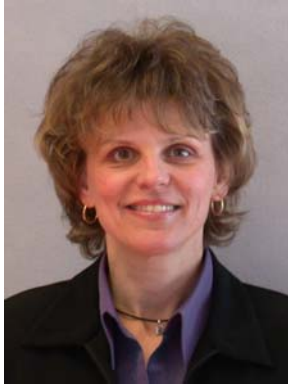


Dr. Yogesh Gianchandani
Deputy Director
The University of Michigan



Ms. Karen Richardson
Administrative Director
The University of Michigan

Center for Wireless Integrated MicroSystems (WIMS) *cont'd*



Ms. Barbara Rice
Financial Director
The University of Michigan



Dr. Leo McAfee, Jr.
Education & Outreach Director
The University of Michigan



Mr. Joseph Giachino
Industrial Liaison Officer
The University of Michigan



Dr. Khalil Najafi
Charter Deputy Director
The University of Michigan



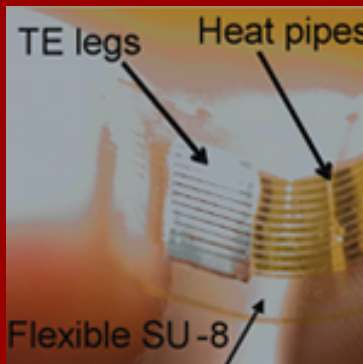
Mr. Ethem "Erkan" Aktakka
SLC
The University of Michigan



Mr. Razi Haque
SLC
The University of Michigan



Ms. Angelique Johnson
SLC
The University of Michigan

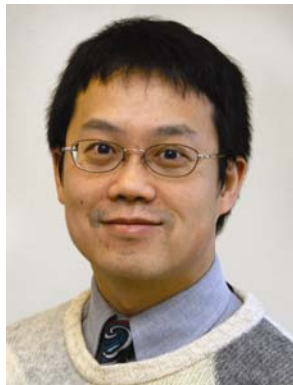


The use of microsystems for many emerging wireless sensing applications has increased the demand for on-site, small-volume, and replacement-free energy sources as opposed to conventional batteries. On-site energy scavenging from various environmental sources including ambient heat, solar energy, and vibration has been introduced as an efficient and promising approach.

Center for Compact and Efficient Fluid Power (CCEFP), est. 2006



Prof. Kim Stelson
Center Director
University of Minnesota



Prof. Perry Li
Deputy Co-Director
University of Minnesota



Ms. Lisa Wissbaum
Administrative Director
University of Minnesota



Prof. William Durfee
Education Co-Director
University of Minnesota



Ms. Linda Western
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Ms. Alyssa Burger
Education & Outreach Director
University of Minnesota



Mr. Michael Gust
Industrial Liaison Director
University of Minnesota

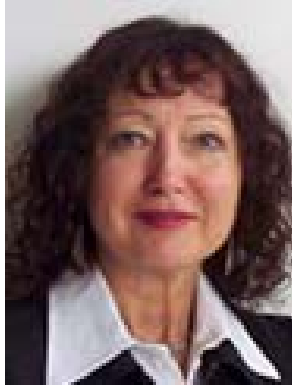


Mr. Don Haney
Communications Director
University of Minnesota



Prof. Wayne Book
Thrust Leader
Georgia Institute of Technology

Center for Compact and Efficient Fluid Power (CCEFP) *cont'd*



Prof. Monika Ivantysynova
Thrust Leader
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Mr. Tim Deppen
SLC
University of Illinois, Urbana-Champaign



Mr. Ken Marek
SLC
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Mr. Mike Rannow
SLC
University of Minnesota



The CCEFP's Education and Outreach Program is intentionally ambitious. It is designed for many audiences -- pre-college and college students, fluid power industry stakeholders and customers, and the general public -- in the recognition that hydraulics and pneumatics is neither well-understood nor often taught.

ERC for Revolutionizing Metallic Biomaterials (RMB), est. 2008



Dr. Jagannathan Sankar
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North Carolina A&T State University



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University of Pittsburgh



Dr. Mark Schulz
Deputy Director
University of Cincinnati

ERC for Revolutionizing Metallic Biomaterials (RMB) *cont'd*



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Dr. Devdas Pai
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North Carolina A&T State University



Dr. Mark Redfern
Education Site Coordinator
University of Pittsburgh



Dr. Robin Liles
Education & Outreach
North Carolina A&T State University



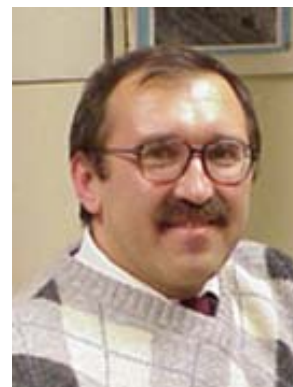
Dr. Leonard Uitenham
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North Carolina A&T State University



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Industrial Liaison Officer
North Carolina A&T State University



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Dr. Charles Sfeir
ES-I Thrust Co-Lead
University of Pittsburgh



Dr. Salil Desai
ES-II Thrust Co-Lead
North Carolina A&T State University



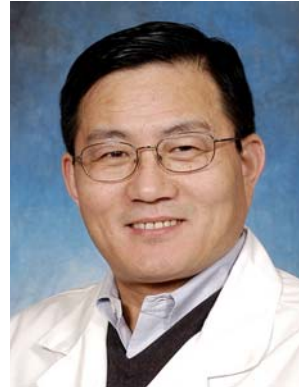
Dr. Dhananjay Kumar
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North Carolina A&T State University



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ES-III Thrust Co-Lead
University of Cincinnati



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Faculty Member
University of Cincinnati



Dr. Sarah Pixley
Faculty Member
University of Cincinnati

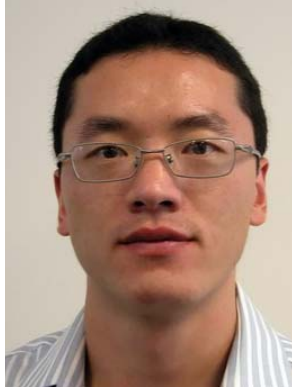


Dr. Savio Woo
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Dr. Huinan Liu
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University of Pittsburgh

ERC for Revolutionizing Metallic Biomaterials *cont'd*



Mr. Zhangzhang "John" Yin
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Mr. Matthew Fisher
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University of Pittsburgh



Ms. Julia Kuhlmann
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University of Cincinnati



Mr. Satish Singh
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Mr. Christopher E. Smith
SLC
North Carolina A&T State University

ERC for Future Renewable Electric Energy Delivery and Management (FREEDM) Systems, est. 2008



Dr. Alex Huang
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North Carolina State University



Mr. Rogelio Sullivan
Deputy Director
North Carolina State University



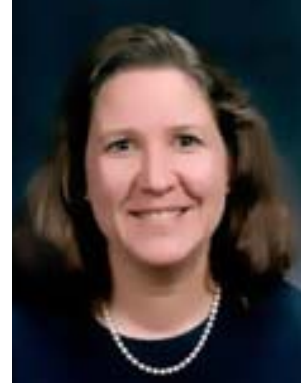
Dr. Steinar Dale
Campus Director
Florida State University



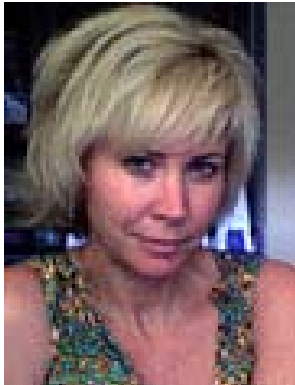
Dr. Jim Zheng
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Florida A&M University



Mr. Steve McClellan
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Dr. Mariesa Crow
Campus Director
Missouri University of Science &
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College Education Program Director
North Carolina State University



Dr. Sharon Schulze
Pre-college Education Program Director
North Carolina State University



Dr. Lisa Grable
Pre-college Outreach Coordinator
North Carolina State University



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Education & Diversity
Program Director
North Carolina State University



Dr. Mark Johnson
Industrial Collaboration & Innovation
Program Director
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Dr. Bruce McMillin
Testbed Leader
Missouri University of Science &
Technology



Mr. Ewan Pritchard
Testbed Leader
North Carolina State University



Dr. Michael Steurer
Testbed Leader
Florida State University



Mr. Robert Seth Crossno II
Industry & Innovations Program Liaison
North Carolina State University



Dr. George Karady
Faculty Member
Arizona State University



Dr. Zhiyong "Richard" Liang
Faculty Member
Florida State University



Ms. Christina Clancey
SLC
Arizona State University



Ms. Ghazal Falahi
SLC
North Carolina State University



Mr. Daniel Fregosi
SLC
North Carolina State University

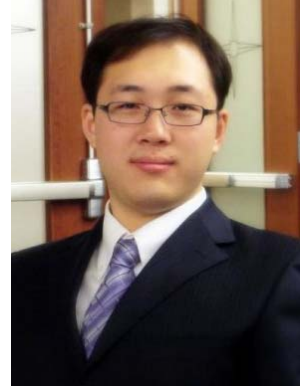
ERC for Future Renewable Electric Energy Delivery and Management (FREEDM) Systems *cont'd*



Ms. Jamie Gomez
SLC
Florida A&M University



Mr. Andrew Meintz
SLC
Missouri University of Science & Technology



Mr. Fanjun "Marfield" Meng
SLC
Missouri University of Science & Technology



Mr. Edward Van Brunt
SLC
North Carolina State University



The new 20,000-square-foot FREEDM ERC headquarters will open on NC State's Centennial Campus in 2010. This new center home will include ERC offices, computer laboratory, library, and power electronics, energy storage, and motor drive laboratories, as well as a

Real Time Digital Simulator lab and the 1MW FREEDM System demonstration hub. For more information about this state-of-the-art facility and opportunity to be co-located with the FREEDM Systems Center, please visit www.freedm.ncsu.edu.

The Bernard M. Gordon Center for Subsurface Sensing and Imaging Systems (Gordon-CenSSIS), est. 2000



Prof. Michael B. Silevitch
Center Director
Northeastern University



Prof. Carey M. Rappaport
Associate Director
Northeastern University



Ms. Anne Magrath
Director of Finance & Administration
Northeastern University

The Bernard M. Gordon Center for Subsurface Sensing and Imaging Systems (Gordon-CenSSIS) *cont'd*



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Northeastern University



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Internal Evaluator
Northeastern University



Dr. Philip Cheney
Senior Consultant for Corporate &
Government Partnerships
Northeastern University



Ms. Kristin Hicks
Partnership & Education
Services Coordinator
Northeastern University



Ms. Maria Constanza
SLC
University of Puerto Rico at Mayagüez
Northeastern University



Ms. Tenicka Turnquest
SLC
Rensselaer Polytechnic Institute

ERC on Mid-InfraRed Technologies for Health and the Environment (MIRTHE), est. 2006



Prof. Claire Gmachl
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Princeton University



Prof. Anthony Johnson
Deputy Director
University of Maryland—Baltimore County



Prof. James Smith
Deputy Director
Princeton University



Mr. Joseph Montemarano
Executive Director
Princeton University



Ms. Virginia Czarnecki
Grants Manager
Princeton University



Ms. Denise Ritzmann
Office Coordinator
Princeton University



Prof. William Massey
Education Program Director
Princeton University



Ms. Roxanne Zellin
Education & Outreach Director
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Ms. Bernadeta Wysocka
Industrial Liaison Officer
Princeton University



Dr. Elaine Lalanne
Research Scientist
University of Maryland—Baltimore County



Dr. Curtis Menyuk
Faculty Member
University of Maryland—Baltimore County



Mr. William Charles
Postdoctoral Research Associate
Princeton University



Ms. Anna Michel
Postdoctoral Research Associate
Princeton University



Ms. Chuen Meei "Fanny" Gan
SLC
City College of New York



Mr. Maung Lwin
SLC
City College of New York



Ms. Tracy Tsai
SLC
Princeton University



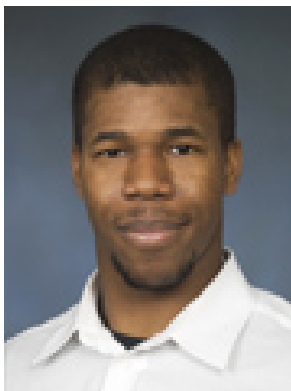
Ms. Candice Tsay
SLC
Princeton University



Mr. Arjun Vijayakumar
SLC
Princeton University



Mr. Matt Wood
SLC
Texas A&M University



Mr. Akil Word-Daniels
SLC
University of Maryland—Baltimore County



MIRTHE encompasses a world-class team of engineers, chemists, physicists, environmental and bio-engineers, and clinicians to develop Mid-Infrared (λ - 3-30 μm) optical trace gas sensing systems based on new technologies such as quantum cascade lasers or quartz enhanced photo-acoustic spectroscopy.

ERC for Smart Lighting, est. 2008



Prof. John Wen
Interim Center Director
Rensselaer Polytechnic Institute



Prof. Arthur Sanderson
Interim Deputy Director
Rensselaer Polytechnic Institute



Prof. Thomas Little
Associate Director (BU)
Boston University



Prof. Steven Hersee
Associate Director (UNM)
Materials Thrust Leader
University of New Mexico



Ms. Diane Veros
Administrative Director
Rensselaer Polytechnic Institute



Prof. Kenneth Connor
Education & Outreach Program Director
Rensselaer Polytechnic Institute



Prof. Don L. Millard
Education & Outreach Coordinator
Rensselaer Polytechnic Institute



Dr. Silvia Mioc
Industrial Collaboration Director
Rensselaer Polytechnic Institute



Prof. Shawn-Yu Lin
Devices Thrust Leader
Rensselaer Polytechnic Institute

ERC for Smart Lighting, est. 2008 *cont'd*



Mr. Jimmy Chau
SLC
Boston University



Mr. Christoph Stark
SLC
Rensselaer Polytechnic Institute



We envision the creation of

- **Smart Lighting Systems** that are fully controllable and tunable to enable adaptation to specific requirements, environments, and conditions.
- **Smart Lighting Systems** that will achieve energy conservation through optimal control of efficient, non-toxic, benign, and durable solid state light sources.

Center for Structured Organic Particulate Systems (C-SOPS), est. 2006



Prof. Fernando Muzzio
Center Director
Rutgers University



Dr. Gintaras "Rex" Reklaitis
Deputy Director
Purdue University



Prof. Alberto Cuitiño
Site Leader & Thrust II Coordinator
Rutgers University



Prof. Rajesh Dave
Site Leader & Thrust III Coordinator
New Jersey Institute of Technology



Ms. Charanjeet Kaur
Administrative Director &
Business Manager
Rutgers University



Prof. Henrik Pedersen
Education Director
Rutgers University



Ms. Aisha Lawrey
Assistant Director for Education & Outreach
Rutgers University



Dr. Eric Erenrich
Assistant Director
Industrial Liaison Officer
Rutgers University



Mr. James Litster
Thrust Leader
Purdue University



Dr. Rodolfo Romañach
Project Leader
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Ms. Lauren Beach
SLC
New Jersey Institute of Technology



Mr. Matthew Metzger
SLC
Rutgers University



Mr. Avik Sarkar
SLC
Purdue University



Outcomes that determine C-SOPS success as an ERC

- Faster, more reliable, less expensive drug product development
- Less expensive manufacturing
- Lower risk to patients through improved quality
- New multidisciplinary educational programs, enhanced manpower supply
- New technologies benefiting all industries that focus on delivery of bioactive substances

ERC for Biomimetic MicroElectronic Systems (BMES), est. 2003



Dr. Mark Humayun
Center Director
University of Southern California



Dr. James Weiland
Deputy Director
University of Southern California



Ms. Doris Lee
Administrative Director
University of Southern California



Dr. Gisele "Gigi" Ragusa
Associate Director
Education & Outreach Assessment
University of Southern California



Dr. Joe Cocozza
Co-Director
Education & Outreach Programs
University of Southern California



Ms. Diana Sabogal
Assistant Director, Education,
Outreach & Diversity Programs
University of Southern California



Dr. Jack Whalen
Director, Business Development &
Corporate Partnerships
University of Southern California



Mr. Christian Gutierrez
SLC
University of Southern California



Ms. Aditi Ray
SLC
University of Southern California

MEETING PLANNERS



Ms. Ann Becker
Ann Becker and Associates



Ms. Louise G. Robson
Ann Becker and Associates



Ms. Kate Ryan
Ann Becker and Associates

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