

Purdue Geotechnical Society Workshop Program

Friday, April 24, 2009

Stewart Center, Room 214, State Street, Purdue University, West Lafayette, IN

Theme: *Sustainable, Stable, and Equitable Communities: Near and Far*

7:30 AM Coffee, juice, rolls, fruit

Opening of Workshop -Vincent Drnevich, Chair PGS-Leonards Lecture Organizing Committee

8:00 AM Welcome – **Leah Jamieson**, John A. Edwardson Dean of the Engineering / Ransburg Professor of Electrical & Computer Engineering, Purdue University

Morning Session

Moderator: **Mike Wigger**, Earth Exploration Coordinator: **Brock E. Barry**, Purdue Engineering Education

8:15 AM Keynote – *Ethical, Design, and Cultural Considerations when Working Primarily Outside the United States*, **William F. Brumund**, Golder Associates, Jacksonville, FL.

9:00 AM *Site Investigation and Foundation Design Considerations for Offshore Re-newable Energy Projects*, **Tom McNeilan**, Fugro Atlantic, Norfolk, VA

9:25 AM *I-99 Acid Rock Drainage Remediation Project*, **Kevin Foye**, CTI and Associates, Inc., Brighton, MI

9:50 AM Break

10:20 AM *Challenges of Replacing a Small Rural Bridge Without Impacting the Railroad*, **Darrin Beckett**, Kentucky Dept. of Highways, Frankfort, KY

10:45 AM *Sustainable Reinforced Earth*, **Dion Gray**, Reinforced Earth Co., Vienna, VA

11:10 AM *Sustainable Goals Challenged by Urban Fill*, **Daniel L. Harpstead**, Kleinfelder, Exton, PA

11:40 AM Group Photo - PMU Steps

11:50 AM Lunch - West Faculty Lounge, Purdue Memorial Union

Afternoon Session

Moderator: **Joseph Sinfield**, Purdue Civil Engineering Coordinator: **Chike Monwuba**, Purdue Civil Engineering

1:00 PM Keynote - *Global Engineering Trends*, **Rabi Mohtar**, Professor of Agricultural and Biological Engineering and Director of the Purdue Global Engineering Program.

1:45 PM *Sustainable Stewardship - Projeto Manuelzao - A Brazilian Rural Community Project*, **Casias Terezinha Galvão**, Spelman College, Atlanta, GA

2:10 PM *Running an Earth Sciences and Environmental Engineering Consulting Company with a Social Mission*, **John Mundell**, Mundell & Associates, Inc., Indianapolis, IN

2:35 PM *Re-engineering Engineers Without Borders*, **Shiva Haghighi** and **Ryan Hartzog**, Purdue - Engineers without Borders, West Lafayette, IN

2:55 PM *Participatory Activities in Nicaragua: Field Work and Social Responsibility*, **Elena Benedicto**, Department of English, Purdue University

3:20 PM Panel Discussion: *What We Can Do To Achieve More Sustainable, Stable, and Equitable Communities: Near and Far*, **Joe Sinfield**, moderator; Panelists: **Bernard Amadei**, **William F. Brumund**, **Rabi Mohtar**, and **Victor Milligan** (2nd G.A. Leonards Lecturer)

4:00 PM Workshop closes; refreshments in 214 Stewart Center prior to Leonards Lecture

Seventh G.A. Leonards Lecture

Fowler Hall, Stewart Center, State Street, Purdue University

4:30 PM Welcoming Remarks: **M. Katherine Banks**, Bowen Engineering Head and Professor of Civil Engineering, Purdue University

Introduction of the Seventh G.A. Leonards Lecturer: **Antonio Bobet**, Purdue University

Engineering with a Human Face

Bernard Amadei, Founder of Engineers Without Borders - USA



Dr. Amadei is Professor of Civil Engineering at the University of Colorado at Boulder. He received his PhD in 1982 from the University of California at Berkeley. Dr. Amadei is the Director of the Engineering for Developing Communities program at CU Boulder. He is also the Founding President of Engineers Without Borders - USA and the co-founder of the Engineers Without Borders-International network. The mission of EWB-USA is to partner with disadvantaged communities to improve their quality of life through implementation of sustainable engineering projects, while involving and training internationally responsible engineering professionals and students. Among other distinctions, Dr. Amadei is a 2007 co-recipient of the Heinz Award for the Environment and is a newly elected member of the U.S. National Academy of Engineering.

Abstract: The lecture will present the challenges and opportunities associated with providing sustainable, equitable and appropriate solutions to the basic needs of about 5 billion people whose job is to stay alive by the end of the day. Quoting Albert Einstein, "The significant problems we face cannot be solved by the same level of thinking that created them," it is clear that engineering needs to embrace a new mindset in education, R&D, and practice. Addressing today's developing world problems requires the education of a new generation of globalized engineers working hand-in-hand with local communities, governments, and international development organizations and an engineering profession willing to interact with other disciplines.

6:30 PM **Reception**, Main Foyer, Dauch Alumni Center, 403 West Wood Street, Purdue University, West Lafayette

7:00 PM **Dinner**, Prusiecki Banquet Room, Dauch Alumni Center, 403 West Wood Street, Purdue University, West Lafayette

8:00 PM **Meeting of the PGS**
Presentation of a memento to Bernard Amadei and informal remarks by him

Program Sponsors: Earth Exploration. Inc. (Gold), Fugro Inc. (Gold), Golder and Associates (Gold), Haley and Aldrich (Silver), and the Purdue Chapter of the Sigma Xi Scientific Research Society

Purdue Geotechnical Society Program Committee:

Vincent P. Drnevich, Antonio Bobet, Philippe Bourdeau, Marika Santagata, Joseph Sinfield, Brock Barry, Pao-Tsung Huang, Chike Monwuba, Filipe Ochoa, Ruth Wertz, and Alan Witthoef of Purdue, and Mike Wigger of Earth Exploration.

Purdue Conference and Continuing Education Staff: Tom Robertson, roberttl@exchange.purdue.edu

The Purdue Geotechnical Society

Founded in May 2003

<https://engineering.purdue.edu/PGS>