Engineering, Social Justice, and Peace (ESJP) ninth annual conference, 14-16 August 2013

Pat's Barn

Rensselaer Technology Park

Troy, New York, USA

Hosted	by
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Dean Nieusma

School of Humanities, Arts, and Social Sciences

Rensselaer Polytechnic Institute

Conference Theme: Engineering and Development

Program Overview

WEDNESDAY, 14 AUGUST

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9.00a	Opening Talk: \	what boes it	iviean to	be numan:

- 9:30 Panel Discussion: What is ESJP?
- 11:00 Workshop: Social Justice and Higher Education
- 12:00 Lunch on site
- 1:00p Session: Student-Led Initiatives
- 3:00 Session: Community Participation
- 4:15 Shuttle to West Hall, RPI main campus
- 5:00 Shadow Theater Performance: My Revolutionary Dream Toilet! (West Hall Auditorium)
- 7:00 Dinner on site (West Hall 1st Floor)

THURSDAY, 15 AUGUST

- 9:00a Session: ESJP Cases (waste management, building materials, infrastructure)
- 11:00 Session: ESJP in Education: Issues
- 12:00 Lunch on site
- 1:00p Workshop: Design with People
- 2:30 Session: ESJP in Education: Approaches
- 4:30 Workshop: Fishing Together
- 6:00 Open Discussion and Reflections
- 7:00 Dinner on Your Own

FRIDAY, 16 AUGUST

- 9:00a Workshop: Training for Engineering for Development
- 9:30 Workshop: The Critical Development Forum
- 11:00 Session: Culture Change for ESJP
- 12:00 Lunch on site with presentation: Community Participation in Colombia and Chile
- 1:00p ESJP Resources
- 3:00 Wrap-Up Discussion and Reflections
- 4:00 Adjourn

Wednesday, 14 August			
8:30am	Coffee and snacks		
9:00-9:30	Opening Talk: What Does It Mean to Be Human? George CATALANO (State University of New York at Binghamton)		
9:30-10:30	Panel Discussion: What is ESJP? Moderator: Dean Nieusma, 2013 conference host. Panelists: Caroline Baillie, 2004 Kingston, Ontario, Canada & 2010 London, England George Catalano, 2006 & 2007 Binghamton, New York Donna Riley, 2008 Northampton, Massachusetts Chris Byrne, 2009 Whidbey Island, Washington Andrés Valderamma & Juan Lucena, 2011 Bogotá, Colombia		
10:30-11:00	Break		
11:00-12:00	Workshop: Social Justice & Higher Ed: Good partnership or mutually exclusive?		
	Caroline Baillie (University of Western Australia) George Сатаlano (State University of New York at Binghamton)		
12:00 noon	Lunch on site		
1:00pm-2:30			
	"Risks and Rewards of Student-led Engineering for Development" Erin Lennox (RPI & ESW Projects Director) Brittany Bennett (Smith & ESW Chapter Relations Director) Alex Allen (RPI & ESW-RPI Project Leader) "A Non-Linear Systems Approach to Sustainable Rural Water Services in Developing Countries" Jeff Walters and Bernard Amadei (University of Colorado Boulder)		
2:30-3:00	Break		
3:00-4:00	Session: Community Participation "Engenharia dos Oprimidos: A model of participatory engineering project for sustainable community development" Andrea Mazzurco (Purdue University) "Preparing Engineers for the Challenges of Community Engagement: A short training course approach" Matthew Harsh (Concordia University), Susan Cozzens (Georgia Institute of Technology), Jameson Wetmore (Arizona State University), Rafeal Castillo (Georgia Institute of Technology), Rodrigo Cortes-Lobos (Universidad de Talca), Diran Soumonni (University of Witwatersrand), Thomas Woodson (Georgia Institute of Technology)		
4:15	Shuttle departs Pat's Barn for West Hall Auditorium, RPI main campus		
5:00-6:00	Shadow Theater Performance: My Revolutionary Dream Toilet! (West Hall Aud.) J. Scott Jiusto (Worcester Polytechnic Institute) Robert Hersh (Worcester Polytechnic Institute) Andrea Caspari (Firefly Shadow Theater, Princeton, Mass.)		

Reception and dinner (West Hall, 1st Floor)

6:00-9:00

8:30am	Coffee and snacks		
9:00-10:30	Session: ESJP Cases		
	"Assumptions, Diverse Realities, and Promises: Understanding power relations in		
	Waste Management in Sri Lanka"		
	Randika Jayasınghe (University of Western Australia)		
	Caroline BAILLIE (University of Western Australia)		
	"A Fine Balance between Engineer and Local Community: The case for local building materials and practices"		
	Sarah Seitz and Darko Matovic (Queen's University)		
	"The Power and Framing of Professional Knowledge in Development: The case of		
	engineering in Greenland under self-rule"		
	Ulrik Jørgensen (Aalborg University Copenhagen)		
	Birgitte Hoffmann (Aalborg University Copenhagen)		
10:30-11:00	Break		
11:00-12:00	Session: EJSP in Education: Issues		
	"Increasing STS Content in Engineering, and Social Justice for Non-Traditional		
	Students"		
	Lisa McLoughlin (Greenfield Community College, Greenfield, Mass.)		
	"Subverting the Engineering Sacred Cow: How to redefine what engineers are		
	supposed to be and know in the engineering sciences"		
12:00 noon	Juan Lucena (Colorado School of Mines) Lunch on site		
1.00nm 2.00	Workshop, Design with Books		
1:00pm-2:00	Workshop: Design with People Andrés Valderamma, Søsser Brodersen, Ulrik Jørgensen, Signe Pedersen		
	(Aalborg University Copenhagen)		
2:00-2:30	Break		
2:30-4:00	Session: ESJP in Education: Approaches		
	"A New Vision for Mining Education: First Steps"		
	Anne Joнnson (Queen's University, Kingston, Ontario)		
	"Generative Justice versus Distributive Justice: A crucial distinction for guiding		
	engineering towards a more peaceful and democratic world"		
	Ron Eglash (RPI)		
	"Guidelines for Integrating Social Justice in Engineering Education to Circumvent		
	Common Barriers to Entry" Jon Leydens (Colorado School of Mines)		
4:00-4:30	Break		
4:30-6:00	Workshop: Fishing Together: What does it take?		
4.30 0.00	Roger Burton (Sino-US Strategic Alliance for Sustainability)		
	Lizabeth Schlemer, Trevor Harding, Linda Vanasupa		

(California Polytechnic State University)

Open Discussion and Reflections

Dinner on Your Own

6:00-7:00

7:00

Friday, 16 August				
8:30am	Coffee and snacks			
9:00-9:30	Workshop: Dialogues on Development: Engaging engineers with community development Julian O'SHEA (University of Western Australia)			
9:30-11:00	Workshop: Creating Communities of Praxis and Solidarity from Communities of Good Intentions and Charity: Learning from the successes and failures of the Critical Development Forum			
	Dean Снанім (Critical Development Forum & GeoEngineers, Inc.)			
11:00-12:00	Session: Culture Change "Contexts of Conflict" Robert Muscat (Global Peace Services) "Developing a Community of Peace on a College Campus" George Catalano (State University of New York at Binghamton)			
12:00 noon	Lunch on site			
12:30pm	Lunchtime presentation: "Community Participation in Engineering Projects: Colombian and Chilean cases" María C. Ramírez, Astrid Bejarano , Diana M. Duarte, Juan P. Sanabria			
1:00pm-2:30	Session: ESJP Resources ESJP Educational Models Xiaofeng TANG (RPI) ESJP Research Funding Linda LAYNE (RPI & US National Science Foundation)			

Donna RILEY (Smith & US National Science Foundation)

ESJP Careers

Wrap-Up Discussion and Reflections

Break

Adjourn

2:30-3:00

3:00-4:00

4:00pm

EJSP 2013 Participants and affiliations (estimation as of 29 July 2013)

Alex ALLEN, Rensselaer Polytechnic Institute

Caroline Baillie, University of Western Australia

David Banks, Rensselaer Polytechnic Institute

Astrid Bejarano, Ingenieros sin Fronteras Colombia

Brittany Bennett, Smith College

Roger Burton, Sino-US Strategic Alliance for Sustainability

Chris Byrne, Cascadia Community College

George CATALANO, State University of New York at Binghamton

Andrea Caspai, Firefly Shadow Theater, Princeton, Mass.

Dean Chahim, Critical Development Forum & GeoEngineers, Inc.

Ron Eglash, Rensselaer Polytechnic Institute

Trevor Harding, California Polytechnic State University

Matthew Harsh, Concordia University

Robert Hersh, Worchester Polytechnic Institute

Kirk JALBERT, Rensselaer Polytechnic Institute

Randika JAYASINGHE, University of Western Australia

J. Scott Jiusto, Worchester Polytechnic Institute

Anne Johnson, Queen's University, Kingston, Ontario

Ulrik JØRGENSEN, Aalborg University Copenhagen

Jens Kabo, Chalmers University

Linda LAYNE, Rensselaer Polytechnic Institute and National Science Foundation

Erin Lennox, Rensselaer Polytechnic Institute

Jon LEYDENS, Colorado School of Mines

Juan Lucena, Colorado School of Mines

Darko Matovic, Queen's University, Kingston, Ontario

Emily Mattiussi, Engineers Without Borders UK

Andrea Mazzurco, Purdue Univesity

Lisa McLoughlin, Greenfield Community College, Greenfield, Massachusetts

Robert Muscat, Global Peace Services

Dean NIEUSMA, Rensselaer Polytechnic Institute

Julian O'SHEA, University of Western Australia

Signe Pedersen, Aalborg University Copenhagen

Yohan Pieris

Lindsay Poirier, Rensselaer Polytechnic Institute

Donna RILEY, Smith College and National Science Foundation

Lizabeth Schleme@calpoly.edu>;

Sarah Seitz, Queen's University, Kingston, Ontario

Denver Tang, Rensselaer Polytechnic Institute

Andrés Valderrama Pineda, Aalborg University Copenhagen

Linda Vanasupa, California Polytechnic State University

Jeff Walters, University of Colorado Boulder