School of Engineering

Dean’s Advisory Council Meeting
Friday April 20, 2012, Troy, NY (RPI Campus)

David Rosowsky, Ph.D., P.E., F.ASCE
Dean of Engineering
Topics Covered (Part 1: State of the SoE)

- Enrollments (numbers, controls)
- Faculty (hiring, retention)
- ABET (update, preparations)
- Professional Staff
- Rankings
- Research and Centers
- World Economic Forum visit
- Fundraising
- Dean’s travel
- Distinguished visitors, seminars
- Better World // Engineering
- Leadership succession planning
- Accessing Emeritus faculty
- SoE Report: Community of Scholars
- SoE Report: Teaching Innovation
- RAA Volunteer Summit
- Diversity
- New academic offerings
- Student and Faculty Accolades
- Faculty appointments
- Finances
Topics Covered (Part 2: Forward Planning)

- President’s Leadership Retreat (June)
- FY13 Performance Plan
- Fundraising
- Role of the Advisory Council
Pecha Kucha (Japanese: , IPA: ,¹ chit-chat) is a presentation methodology in which 20 slides are shown for 20 seconds each (approx. 6' 40" in total), usually seen in a multiple-speaker event called a Pecha Kucha Night (PKN).

Pecha Kucha Night was devised in February 2003² by Astrid Klein and Mark Dytham of Tokyo's Klein-Dytham Architecture (KDa), as a way to attract people to Super Deluxe, their experimental event space in Roppongi.³ Pecha Kucha Night events consist of around a dozen presentations, each presenter having 20 slides, each shown for 20 seconds on a timer. Thus, each presenter has just 6 minutes and 40 seconds to explain their ideas before the next takes the stage.

Conceived as a venue through which young designers could meet, show their work, exchange ideas, and network, the format keeps presentations concise and fast-paced.
Enrollments

Numbers
Trends
Management
Challenges
SoE Focal Areas

1. Transformation Materials
2. Human Health and Livability
ABET is a nonprofit, non-governmental organization that accredits college and university programs in the disciplines of applied science, computing, engineering, and engineering technology. ABET accredits over 3,100 programs at more than 660 colleges and universities in 23 countries. ABET provides specialized, programmatic accreditation that evaluates an individual program of study, rather than evaluating an institution as a whole.

ABET accreditation, which is voluntary and achieved through a peer review process, provides assurance that a college or university program meets the quality standards established by the profession for which the program prepares its students.
Research and Centers

Success
New Centers
Plans
Challenges
Figure 2 | Risks Interconnection Map (RIM) 2011

Global Risk Task Committee
RPI Visit, April 2012
“To give away money is an easy matter and in any man’s power. But to decide to whom to give it and how large and when, and for what purpose and how, is neither in every man’s power nor an easy matter.”
— Aristotle
Dean’s Travel

Boston, MA
New York, NY
Geneva, Switzerland
Fairfax, VA
Washington, DC
Los Angeles, CA
Chicago, IL
Austin, TX
Distinguished Visitors

Dr. Andrew Jackson, NAE
Sir Harry Kroto
Nobel Prize Winner in Chemistry

Dr. Chris Hendrickson, NAE

Dr. Linda Abriola, NAE

Dr. Ahsan Kareem, NAE

Dr. Wayne Clough, NAE
Better World//Engineering

Student features
Intro. to Engineering course
BW//E Professorship models
Leadership succession planning
Accessing Emeritus Faculty
2011 School of Engineering Research Report
Deans Roundtable Discussion
RAA Volunteer Summit, April 2012
New academic offerings

- BSES degree
- SoE-Lally
- Bedford (CEE-SoA)
- Biomaterials
- Cyber-security
- Environment
- Lighting
- Music/Sound/Acoustic

why not change the world?
Faculty Awarded Emeritus Status
George Nagy
Stephen Derby
Christoph Steinbruchel

Rensselaer Award
Thomas Willemain, Rensselaer Alumni Association Teaching Award

2012 School of Engineering Faculty Excellence Awards
Outstanding Professor of Engineering Award, Al Wallace
Teaching Award - Classroom Excellence, Pankaj Karande and Bimal Malaviya
Teaching Award – Education Innovation, Marc-Olivier Coppens
Research Excellence Award (Senior Faculty), Miki Amitay and Ganapati Ramanath
Research Excellence Award (Junior Faculty), Emily Liu and Pete Tessier
Research Excellence Award (Research Faculty), Fuming Zhang

Outstanding Team Award
“Shared Core Virtual Human Technology”: George Xu, Suvranu De, and Peter Caracappa

Young Investigator Awards
R. Gilbert, X. Intes (BME), and J. Lian (MANE) – NSF Career Award
R. Bevilacqua (MANE) – AFOSR Young Investigator Award

Society Awards/Recognitions
Prabhat Hajela - ASME Dedicated Service Award
Michael Amitay/Rensselaer - Boeing Silver Level Performance Excellence Award (BPEA)
Michael Amitay/Rensselaer - Boeing Supplier of the Year Award (Technology Category)
Mark Shephard - von Neumann Medal from the Association for Computational Mechanics
Robert Hull - Chair Elect of the University Materials Council
Linda Schadler - elected to the ASM International Board of Trustees
Faculty Appointments

**Endowed Chairs**
- Institute Professor
- Russell Sage Professorship
- Decker Chair
- Clark and Crossan Chair II
- Redfern Chair
- Horton Chair
- Blitman Career Development Chair
- Clark and Crossan Chair I

**Other**
- Nuclear Eng. Program Head
Finances
Upcoming Events

Fenway Park 100th Anniversary
- Fenway Park RAA event
- Lecture on-campus

Archer Center 20th Anniversary
President’s Colloquy & Graduation Weekend

Chemical Engineering 100th Anniversary

Inaugural Regional Workshop, National Network for Manufacturing Innovation (NNMI), April 25th, EMPAC

Dean’s Travel, RAA Events