David V. Rosowsky, P.E., F.ASCE
Dean of Engineering
Ph.D., Johns Hopkins University
M.S., Tufts University
B.S., Tufts University

I can’t think of any university that has transformed itself
more in the past 10 years.

Rensselaer Polytechnic Institute
110 8th Street
Troy, NY  USA  12180

Non-Profit Org.
U.S. Postage
PAID
Rensselaer
Polytechnic Institute
2009/10
ENG.RPI.EDU
2009
Opening of $92 million East Campus Athletic Village
2008
The REACH program launches, providing an international experience
opportunity for all engineering undergraduates
Opening of the 220,000-square-foot Curtis R. Priem Experimental
Media and Performing Arts Center
2007
The $130 million Computational Center for Nanotechnology Innovations
opens, becoming one of the world’s most powerful university-based supercomputing
centers
2006
Rensselaer becomes a Partner for the Advancement of Collaborative
Engineering Education (PACE), receiving in-kind gifts totaling $514 million
2004
Opening of the 218,000 square-foot Center for Biotechnology and
Interdisciplinary Studies, home to the Gen*t*NY*sis Center for
Bioengineering and Medicine
Network for Earthquake Engineering Simulation (NEES) is launched,
investing millions of dollars to expand scope and capabilities of the
university’s 150 g-ton geotechnical centrifuge
2001
The NSF Nanoscale Science and Engineering Center for Directed
Assembly of Nanostructures is created
2000
The Rensselaer Plan lays out a new, comprehensive strategic plan
for the university

Experimental Media and Performing Arts Center (EMPAC):
The 217,000-square-foot facility provides resources for real
multidisciplinary project work in fields including visualization, animation,
simulation, and acoustics. Associate professor of mechanical engineering,
Suvranu De, is working on “teletouch,” the ability
to remotely simulate the feeling of touch through vibrations. With NIH
funding, De and his collaborators developed a system
that can control the sense of touch with a 10-processor computer network
with a cardiac patient

Associate professor Rich Radke and professor Badri Roysam
of electrical, computing and systems engineering are equipping
an EMPAC studio with a network of calibrated cameras, on a
3-D interactive visualization platform to study
multisensor tracking, neuron-receptor interactions, and complex
self-organizing behaviors.

2009
Opening of $92 million East Campus Athletic Village
2008
The REACH program launches, providing an international experience
opportunity for all engineering undergraduates
Opening of the 220,000-square-foot Curtis R. Priem Experimental
Media and Performing Arts Center
2007
The $130 million Computational Center for Nanotechnology Innovations
opens, becoming one of the world’s most powerful university-based supercomputing
centers
2006
Rensselaer becomes a Partner for the Advancement of Collaborative
Engineering Education (PACE), receiving in-kind gifts totaling $514 million
2004
Opening of the 218,000 square-foot Center for Biotechnology and
Interdisciplinary Studies, home to the Gen*t*NY*sis Center for
Bioengineering and Medicine
Network for Earthquake Engineering Simulation (NEES) is launched,
investing millions of dollars to expand scope and capabilities of the
university’s 150 g-ton geotechnical centrifuge
2001
The NSF Nanoscale Science and Engineering Center for Directed
Assembly of Nanostructures is created
2000
The Rensselaer Plan lays out a new, comprehensive strategic plan
for the university

Experimental Media and Performing Arts Center (EMPAC):
The 217,000-square-foot facility provides resources for real
multidisciplinary project work in fields including visualization, animation,
simulation, and acoustics. Associate professor of mechanical engineering,
Suvranu De, is working on “teletouch,” the ability
to remotely simulate the feeling of touch through vibrations. With NIH
funding, De and his collaborators developed a system
that can control the sense of touch with a 10-processor computer network
with a cardiac patient

Associate professor Rich Radke and professor Badri Roysam
of electrical, computing and systems engineering are equipping
an EMPAC studio with a network of calibrated cameras, on a
3-D interactive visualization platform to study
multisensor tracking, neuron-receptor interactions, and complex
self-organizing behaviors.
I can't think of any university that has transformed itself more in the past 10 years.

2009
Opening of $92 million East Campus Athletic Village

2008
The REACH program launches, providing an international experience opportunity for all engineering undergraduates
Opening of the 220,000 square-foot Curtis R. Priem Experimental Media and Performing Arts Center

2007
The $52 million Computational Center for Nanotechnology Innovations opens, at the time one of the world’s most powerful university-based supercomputing centers

2006
Rensselaer becomes a Partner for the Advancement of Collaborative Engineering Education (PACE), receiving in-kind gifts totaling $514 million

2004
Opening of the 218,000 square-foot Center for Biotechnology and Interdisciplinary Studies, home to the Gen*NY*sis Center for Bioengineering and Medicine
Network for Earthquake Engineering Simulation (NEES) is launched, investing millions of dollars to expand the university’s 150 ton geotechnical centrifuge

2001
The NSF Nanoscale Science and Engineering Center for Directed Assembly of Nanostructures is created

2000
The Rensselaer Plan lays out a new, comprehensive strategic plan for the university

Experimental Media and Performing Arts Center (EMPAC): The 217,000-square-foot facility provides resources for multidisciplinary work in fields including visualization, animation, simulation, and soundscapes. Associate professor Rich Radke of electrical, computing and systems engineering is equipping an EMPAC studio with a network of calibrated cameras, on a 360 degree interactive visualization platform to help high-precision tracking, enhance virtual environments, and capture collaborations

Associate professor Suvranu De, associate professor of mechanical, computing, and systems engineering, is working on "teletouch," the ability to send the sensation of touch over long distances. With NIH funding, De and his collaborators developed a haptic system to capture the sense of touch with 64 complete sensors of organs to create a virtual simulator for training surgeons.
I can't think of any university that has transformed itself more in the past 10 years.

2009
- Opening of $92 million East Campus Athletic Village

2008
- The REACH program launches, providing an international experience opportunity for all engineering undergraduates
- Opening of the 220,000-square-foot Curtis R. Priem Experimental Media and Performing Arts Center

2007
- The $100 million Computational Center for Nanotechnology Innovations opens, at the time one of the world's most powerful university-based supercomputing center

2006
- Rensselaer becomes a Partner for the Advancement of Collaborative Engineering Education (PACE), receiving in-kind gifts totaling $514 million

2004
- Opening of the 218,000 square-foot Center for Biotechnology and Interdisciplinary Studies, home to the Gen*NY*sis Center for Bioengineering and Medicine
- Network for Earthquake Engineering Simulation (NEES) is launched, investing millions of dollars to expand scope and capabilities of the university's 150 g-ton geotechnical centrifuge

2001
- The NSF Nanoscale Science and Engineering Center for Directed Assembly of Nanostructures is created

2000
- The Rensselaer Plan lays out a new, comprehensive strategic plan for the university

Experimental Media and Performing Arts Center (EMPAC): The 217,000-square-foot facility provides resources for multidisciplinary work in fields including visualization, animation, simulation, and acoustics. Suvranu De, associate professor of mechanical engineering, is working on "teletouch", the ability to send the sensation of touch over long distances. With NIH funding, De and his collaborators developed a haptic system to combine the sense of touch with 3-D computer models of organs to create a virtual simulator for training surgeons. Associate professor Rich Radke and professor Badri Roysam of electrical, computing and systems engineering are equipping an EMPAC studio with a network of calibrated cameras, on a 360 degree interactive visualization platform to study multi-person tracking, whole-brain cytovascular mapping, stem cell microenvironments, and complex cell-cell interactions.
Research Centers

Center for Automation Technologies and Systems (CAST)
Center for Systems Biology and Medicine (CSBM)
AVS-NASA Center for Future Energy Systems (FES)
Center for Bioelectronics (CBE)
Computational Center for Nanotechnology Innovation (CCNI)
Experimental Media and Performing Arts Center (EMPAC)
Nanoscale Science and Engineering Research Center (NSERC)
Center for Subsurface Imaging & Sensing Studies (SCISS)
Nanoscale Research Center (NRC)
Computational Center for Nanotechnology Innovation (CCNI)
Center for Ultrasound Multiscale Science and Engineering Center (MUSeC)

2009 department highlights

Bionanotechnology: Professor Ravi Kane, AIChE’s 2008 Nanoscale Science and Engineering Young Investigator Award recipient, and the Kane Lab are conducting an NSF-funded study to develop Bayesian models for real-time monitoring of information. Researchers: Peter Tessier—protein aggregation; Pankaj Choudhary—protein function; and Jennifer Ryan—biological origins of complex systems.

Power Management: Associate professor Jennifer Ryan and professor Amir Hirsa, two leaders in microelectronic modelling and simulation, are the foremost authorities in 3-D integrated circuits. In their work in microlectronics and photonics, mixed signal equipment, and MEMS, they can hold in the palm of one hand.

Materials and chemical engineering faculty members are the foremost authorities in 3-D integrated circuits. In their work in microlectronics and photonics, mixed signal equipment, and MEMS, they can hold in the palm of one hand. Today Micro Studio is being popular among the first class as 1-condition controlling engineering pedagogy in a hands-on manner.

Medical Center: The Rensselaer 2009 Office of Naval Research (ONR) CAREER Award for Dr. Jennifer A. Wood was named the Judith and Thomas Iovino ’73 Faculty Awards, the Ann and John H. Broadbent Jr. ’59 Senior Faculty Awards, and the Chancellor’s Award for Excellence in Research, Teaching, and Service. The Rensselaer 2009 Office of Naval Research (ONR) CAREER Award for Dr. Jennifer A. Wood was named the Judith and Thomas Iovino ’73 Faculty Awards, the Ann and John H. Broadbent Jr. ’59 Senior Faculty Awards, and the Chancellor’s Award for Excellence in Research, Teaching, and Service.

Profile: R. J. Linhardt, Ph.D. was named American Chemical Society’s 2009 Outstanding Volunteer Award for Excellence in Research, Teaching, and Service.

Biotechnology: Professor of Chemical Engineering, 2009 National Science Foundation (NSF) Young Investigator Award recipient, is conducting an NSF-funded study to develop Bayesian models for real-time monitoring of information. Researchers: Peter Tessier—protein aggregation; Pankaj Choudhary—protein function; and Jennifer Ryan—biological origins of complex systems.

Power Management: Associate professor Jennifer Ryan and professor Amir Hirsa, two leaders in microelectronic modelling and simulation, are the foremost authorities in 3-D integrated circuits. In their work in microlectronics and photonics, mixed signal equipment, and MEMS, they can hold in the palm of one hand. Today Micro Studio is being popular among the first class as 1-condition controlling engineering pedagogy in a hands-on manner.

Materials and chemical engineering faculty members are the foremost authorities in 3-D integrated circuits. In their work in microelectronic modelling and simulation, mixed signal equipment, and MEMS, they can hold in the palm of one hand. Today Micro Studio is being popular among the first class as 1-condition controlling engineering pedagogy in a hands-on manner.

Medical Center: The Rensselaer 2009 Office of Naval Research (ONR) CAREER Award for Dr. Jennifer A. Wood was named the Judith and Thomas Iovino ’73 Faculty Awards, the Ann and John H. Broadbent Jr. ’59 Senior Faculty Awards, and the Chancellor’s Award for Excellence in Research, Teaching, and Service.
I can’t think of any university that has transformed itself more in the past 10 years.

Experimental Media and Performing Arts Center (EMPAC): The 217,000-square-foot facility provides resources for cross-disciplinary work in fields including visualization, animation, simulation, and acoustics. Associate professor of mechanical engineering, is working on “teletouch,” the ability to remotely simulate the touch of long distances. With NIH funding, he and his collaborators developed a tactile system to recreate the sense of touch, with 3D computer models of organs to create a virtual simulator for training surgeons.

Associate professor Rich Radke and professor Badri Roysam of electrical, computing and systems engineering are equipping an EMPAC studio with a network of calibrated cameras, on a 360-degree interactive visualization platform to study multi-person tracking, whole-brain cytovascular mapping, stem cell microenvironments, and complex cell-cell interactions.