Welcome

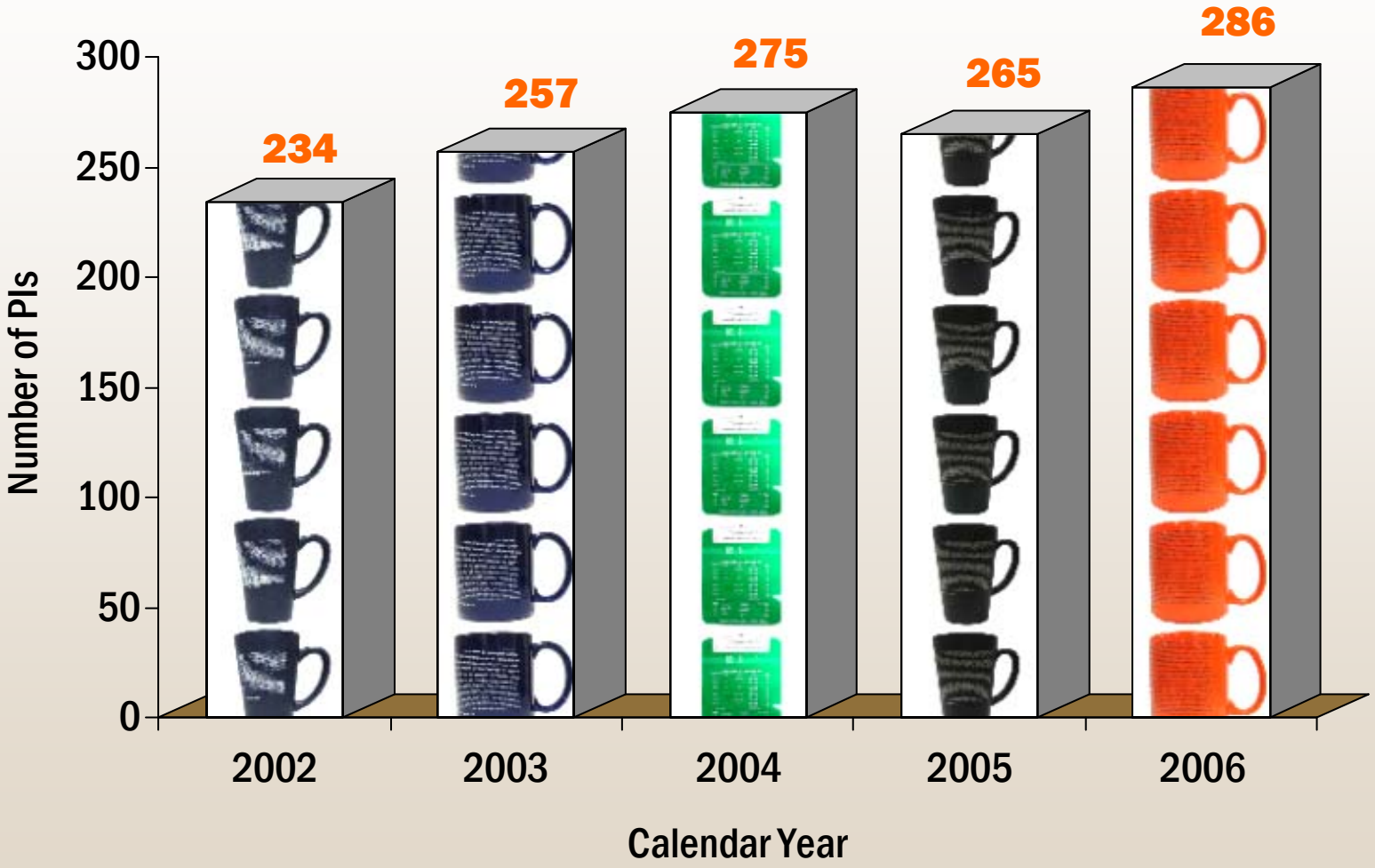
to the

2006 Principal Investigator Reception

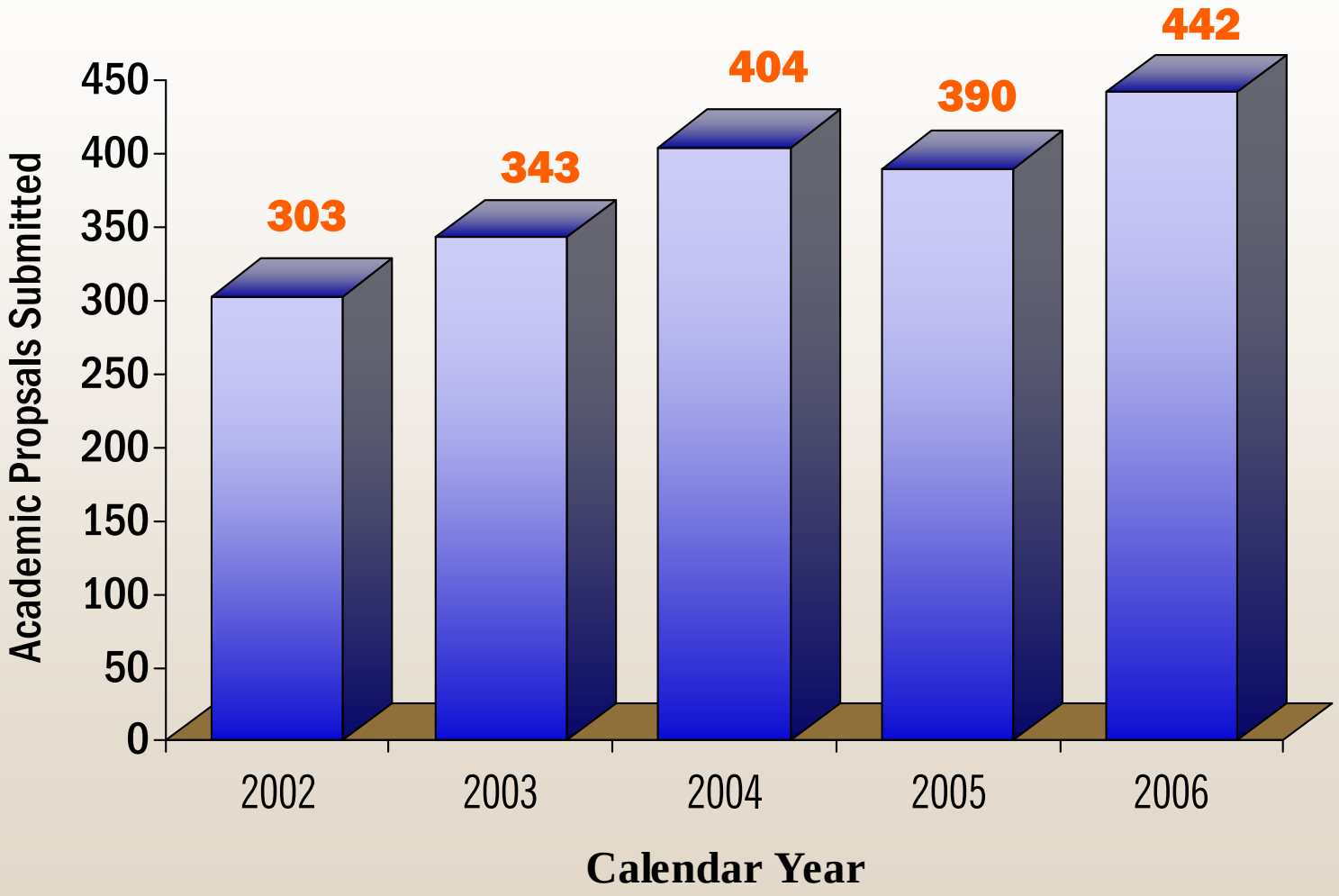
February 22, 2007

Sponsored by the Office of the Provost

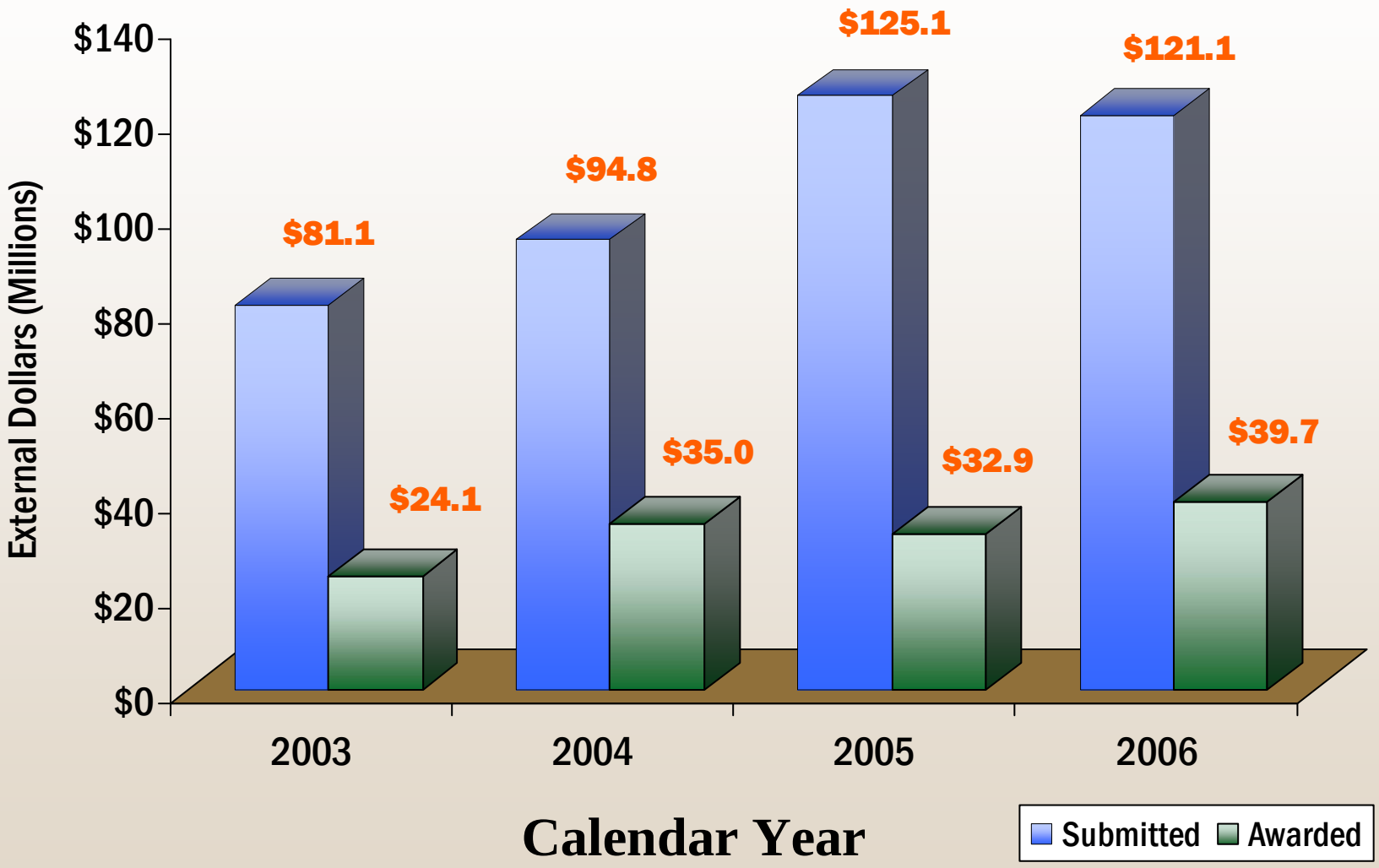
PI Participation



Almost 500 Academic Proposals Submitted!



Value of Proposals and Awards



PI Institute and Grant Writers' Boot Camp Presenters

Abieyuwa Aghayere
Susan Barnes
William Basener
Alex Bitterman
David Borkholder
Nicole Boulais
Donald Boyd
Matt Cao
Andres Carrano
Christopher Collison
Steven Day
Elizabeth DeBartolo
Michael Dwyer
Suzanne Graney
Surendra Gupta
Peter Hauser
Karl Hirschman
Trudy Howles
Joel Kastner
Ronald Kelly
Santosh Kurinec
Donna Lange
William Leonard
Marc Marschark
James Myers
Darren Narayan
Suzanne O'Handley
Myra Pelz
S Manian Ramkumar
Thomas Reichlmayr
Sara Schley
Nirmala Shenoy
Linda Underhill
Keith Whittington
Lynn Wild
Laurence Winnie

PI Millionaires — 2006

Stefi Baum
Professor & Director, Chester F Carlson Center for Imaging Science
College of Science

Paula Brown
Associate Professor, Communication Studies and Services
National Technical Institute for the Deaf

Karl Hirschman
Associate Professor, Microelectronic Engineering
Director, Semiconductor & Microsystems Fabrication Laboratory
Kate Gleason College of Engineering

John Klofas
Professor, Criminal Justice
College of Liberal Arts

James Myers
Associate Professor & Director, Center for Multidisciplinary Studies
College of Applied Science and Technology

Carl Salvaggio
Associate Professor, Chester F Carlson Center for Imaging Science
College of Science

Batting 1000 in 2006

Introducing this year's lineup …

Donald L. Boyd
Vice President for Research

Batting 1000 in 2006

Ronald Amberger

Manufacturing & Mechanical Engineering Technology/Packaging Science, CAST

Monroe County Water Authority $4,789

Pump Coating Project

Dan Batcheldor

Center for Imaging Science, COS

National Aeronautics & Space Administration $33,227

Resolving the Critical Ambiguities of the M-Sigma Relation

Christopher Collison

School of Physical Sciences - Chemistry, COS

American Chemical Society $35,000

The Physical Interaction and Energy Transfer Between Single Wall Carbon Nanotubes and a Straight Chain Conjugated Polymer in Solution

Batting 1000 in 2006

Steven Day

Mechanical Engineering, KGCOE

National Institutes of Health $82,982

Fluid Mechanical Pump Design

Joe Fornieri

History, CLA

New York Council for the Humanities $7,800

Living in Tocqueville's America

Suzanne Graney

School Psychology, CLA

Society for the Study of School Psychology $8,000

The Effects of Frequent Progress Monitoring on the Reading Achievement of Elementary Students at Risk for Reading Failure

Batting 1000 in 2006

Sue Hojnacki

Chester Carlson Center for Imaging Science, COS

National Aeronautics & Space Administration $17,969

Automated Classification of X-ray Sources

Trudy Howles

Computer Science, GCCIS

National Science Foundation $484,256

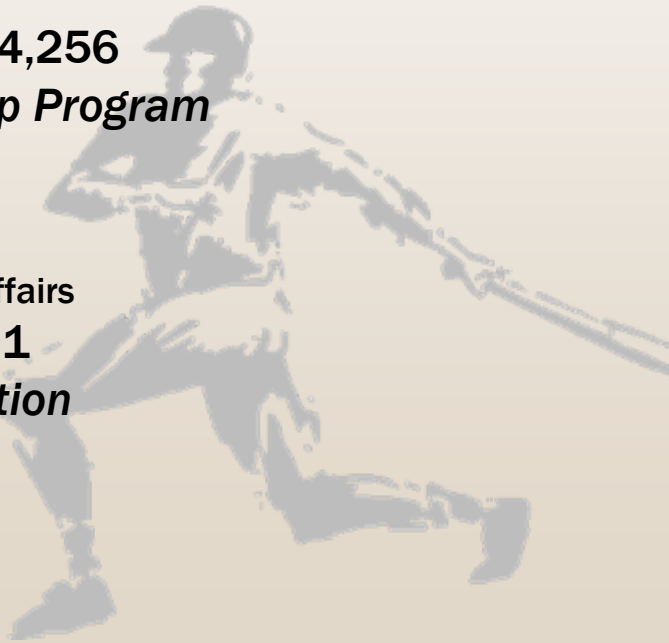
Computing Undergraduates Scholarship Program

Brian Landi

Vice President for Research, Academic Affairs

Christos Monovoukas $10,031

Carbon Nanotube Anode Evaluation



Batting 1000 in 2006

William Leonard

Manufacturing & Mechanical Engineering Technology/Packaging Science, CAST

National Science Foundation $90,000

Rapid Prototyping Instructional Delivery Support

James Myers

Center for Multidisciplinary Studies, CAST

US Department of Labor $1,158,983

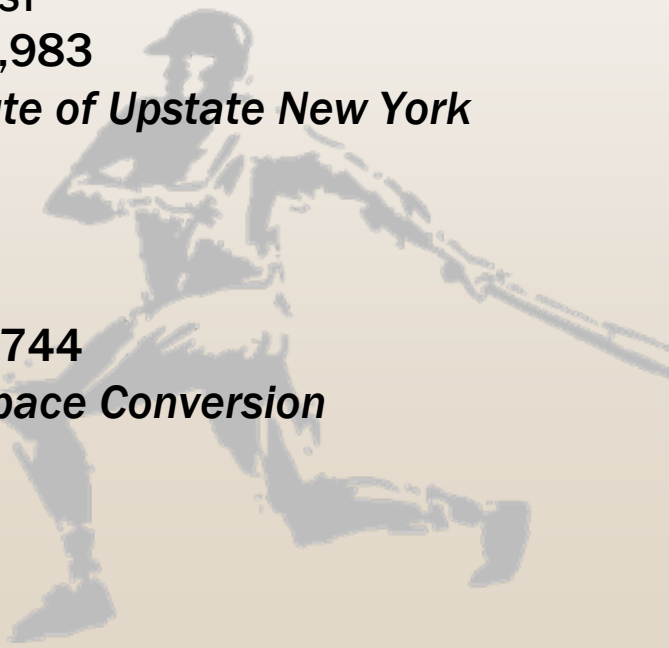
Advanced Food and Beverage Manufacturing Institute of Upstate New York

Eric Peskin

Electrical Engineering, KGCOE

Hewlett-Packard Company $47,744

Field-Programmable Gate Arrays for Color-Space Conversion



Batting 1000 in 2006

Shailendhar Saraf

Electrical Engineering, KGCOE

PPC $94,532

Band Stop Filter for CATV

Robert Stevens

Mechanical Engineering, KGCOE

Environmental Protection Agency $10,000

Solar Pasteurizer with Integral Heat Exchanger for Treating Water in Rural Areas

Batting 1000 in 2006

Congratulations!

The Principal Investigator Presidential Award

Albert J. Simone
President

Criteria for the PI Presidential Award

1. Impact on Students
2. Interdisciplinary Approach
3. Inter-Institutional Collaborations

John R. Schott
Frederick and Anna B. Wiedman Professor and
Director - Digital Imaging and Remote Sensing Laboratory
Chester F. Carlson Center for Imaging Science

Fellow of the International Society of Optical Engineering
Professor of Imaging Science at RIT since 1980

Impact on Students

- Remote Sensing: The Image Chain Approach widely used in America's classrooms and at RIT:
  - 15 PhD dissertations
  - 73 Masters theses
  - 50 Bachelors of Science Capstone projects

Resulting in…

- university professors
- federal government scientists & technical staff
- corporate scientists & researchers

Interdisciplinary Approach

- Combines scholarship in physics with electro-optics and image processing applied to problems in remote sensing
- Developed techniques to remove atmospheric & background effects from signals recorded by sensors
- Developed an airborne instrument for space-based sensing
- Applied to problems in the Intelligence Community and the environment (e.g., to determine water quality; vegetation stress; insect infestation)

Inter-Institutional Collaborations

- 33 published articles – 26 with colleagues
- Principal Investigator for NASA's "Landsat 7 Science Team"
- Scientific Collaborations:
  - Lawrence Livermore National Lab
  - Los Alamos National Lab
  - Lincoln Lab, a federally funded laboratory at MIT
  - The University of California – Irving
  - Cornell University
  - Federal agencies: National Geospatial Intelligence Agency, NASA, Department of Energy, US Geological Service
  - Member, Intelligence Science Board since 2004

Congratulations, John!

John with his former students at March 2005 SPIE conference in Orlando

Scientific Visualization at RIT

Paul A. Craig
Professor of Chemistry
College of Science


ONE MILLION DOLLARS
THE UNITED STATES OF AMERICA
1,000,000
1,000,000
Thanks a Million!
1,000,000
1,000,000
NET WT. 1.2 OZ. (34g)
FINEST PURE CHOCOLATE BAR