NEW FACULTY AND PROGRAM HIGHLIGHTS
FOR THE COLLEGES
February 3, 2005

COLLEGE OF ARTS AND SCIENCES

Programs/Curriculum

- **Applied Life Science Program**
  - Developed using a $400K grant from the Keck Foundation
  - Explores the impact of science on public policy, economics, health care, commerce and law

- **Design Arts Program**:
  - 2020 funding was leveraged to establish this program & new facilities (new metal working shop and improved wood working shop)
  - New director (Anna Chupa) is enhancing the program through her strong leadership in developing collaborations between departments and across colleges

- **Environmental Initiative**
  - New director (Dork Sahagian) hired
  - Integrates science, technology, and social sciences

- **Global Citizenship**:
  - Interdisciplinary program between the colleges
  - Professor Hannah Stewart-Gambino (Political Science) appointed first director
  - First cohort of students returned from winter-term travel to Chile and Hong Kong

Professional Honors

- **Huai-Dong Cao, A. Everett Pitcher Professor of Mathematics (2003)**
  - Appointed a Fellow of the John Simon Guggenheim Memorial Foundation
  - World-leading expert in Ricci flow

- **M. Kathryn Iovine, Biological Sciences (2002)**
  - Recipient of an NIH Early Career Development Award (Recognizes prominence and distinction in scholarly potential)

- **Janet Laible, Political Science (2001)**
  - Recipient of the 2003 Samuel H. Beer Prize for Best Dissertation in British Politics by the American Political Science Association

Research/Scholarly Work

- **Beth Dolan, English (2001)**
  - Recently signed a contract for her book entitled *Seeing Suffering in Romantic Era Literature*, which combines her interest of medical and literary studies

- **Janice Bially Mattern, International Relations (2003)**
  - Representative for Lehigh at the United Nations as part of the University’s recent designation as an UN Non-Governmental Organization (NGO)
  - Published book: *Ordering International Politics: Identity, Crisis, and Representational Force*
- Gordon Moskowitz, Psychology (2001)
  o Published textbook – *Social Cognition: Understanding Self and Others*

- Edurne Portela, Modern Languages and Literature (2003)
  o Active in cross-disciplinary ventures: Martindale Scholars Program, Global Citizenship
  o Planning a seminar in Latin American Human Rights with an in-country study trip to Honduras (dovetailing with projects by colleagues in Civil Engineering and Sociology and Anthropology).

- Joan Ramage, Earth and Environmental Sciences (2004)
  o Receives major funding from NASA
  o Uses techniques in remote sensing to examine snow and ice fluctuations at high elevations and latitudes

- Snapshot of CAS Scholarship in 2003-2004
  o 11 books published
  o 100+ articles and book chapters
  o 160+ conference presentations/invited lectures
  o 24 theatre and music performances
  o 237 funded proposals
  o $8.4 million in research expenditures

**COLLEGE OF BUSINESS AND ECONOMICS**

Programs/Curriculum/Research

- Managing Value Networks:
  o New faculty have conducted sponsored research for the Center for Value Chain Research (RCEAS & CBE)
  o Research from new faculty in marketing, business information systems, and supply chain management has focused on such areas as: E-commerce, Virtual Communities, New Product Innovation, and Outsourcing Activities
  o Project Management Certificate - Online Program with COE
  o Online Undergraduate Course on Principles of Marketing and MBA Course on Business-to-Business Marketing

- Financial Services:
  o Center for Financial Services Studies
  o MS in Analytical Finance (interdisciplinary involving: ISE, Math, Finance, Economics)
  o Financial Services Laboratory
  o Research from new faculty in accounting, finance, and economics has focused on such areas as: Real Options, Business Restructuring, Information Content of Performance Measures, and Business Cycles

- Health and Biopharmaceutical Economics:
  o MS in Health and Bio-Pharmaceutical Economics
  o Research from new faculty in economics and marketing hired for this initiative has focused on such areas as: Value of Pharmaceutical Marketing, Health and Retirement Behavior of Older Americans, Obesity, National Insurance for Children, and Bio-Informatics
COLLEGE OF EDUCATION

Programs/ Curriculum

- Learning Sciences and Technology Doctorate:
  o Six faculty participated in the design and development of a new Ph.D. program
  o Degree program is multidisciplinary in nature and for business and industry as well as education

- Clipper II:
  o Five Lehigh online courses designed for H.S. seniors admitted to the University
  o Helping to shape Lehigh’s “First-Year Experience” initiative

- International Program:
  o Expanded into Kuwait and Saudi Arabia
  o Master’s in Global Leadership now available at the Hong Kong Academy
  o New Master’s degree in International Counseling (taught in South America)

Professional Honors

- Four faculty are the recipients of “Young Scholar Awards” for early career achievements
  o Bestowed by four national associations: American Council for Educational Technology,
    Association for Educational Communications and Technology, Society for the Study of
    School Psychology, American Educational Research Association
  o Two Frank Hook Professorships received

Research/Scholarly Work

- The newest faculty hires:
  o Published 56 refereed articles;
  o Presented 136 papers at national/international scientific conferences;
  o Submitted 26 grants to support externally funded research;
  o Chaired or organized 15 conference plenary sessions;
  o Are editorial board members and/or reviewers for 16 different journals;
  o Secured $3.25 million in research funding;
  o Receive funding from: US Dept of Education, NSF, The Andrew Mellon Foundation, and
    De Witt Wallace Foundation.

P.C. ROSSIN COLLEGE OF ENGINEERING AND APPLIED SCIENCE

Programs/ Curriculum

- Center for Optical Technology
  o Research focus: Optical Networking Technology and Sensor and Display Technology
  o Educational Partners: Penn State, Ben Franklin Technology Partners, Northampton
    Community College, Lehigh Carbon Community College
  o Industrial Partners: Infinera, Corning, T-Networks, TriQuint, HDP, GlucoLight, Asip
  o 32 Lehigh faculty participants (8 new faculty) representing 3 colleges
  o State and Federal funding - matched by Lehigh

- Bioengineering – Strong Cross College and Interdisciplinary Ties
  o Attracts high quality students
  o Involves integrated, experiential learning
- Tracks: Biopharmaceutical Engineering, Bioelectronics/photonics, Cell and Tissue Engineering
- Funded through major NSF Grant ($1.38 million): A new assistant professor serves as Co-PI
- All 8 eight faculty involved are new to Lehigh (since 2001)

**Professional Honors**

- Lindback Foundation Minority Junior Faculty Award
- ACM (Association for Computing Machinery) Fellow
- IEEE (Institute of Electrical and Electronics Engineers) Fellow
- ASME (American Society of Mechanical Engineers) Orr Best Paper Award
- DuPont Chair
- Frank Hook Professorship
- Best Doctoral Dissertation Award
- IAPR (International Associate for Pattern Recognition) Fellow
- ICDAR (International Conference Document Analysis and Recognition) Outstanding Contribution Award
- DAS (Document Analysis Systems) Special Appreciation Award
- INFORMS (Institute for Operations Research and the Management Sciences) Junior Faculty Paper Competition (2nd Place)

**Research/Scholarly Work**

- The newest faculty hires (2001 - 2004):
  - Designed and developed 32 courses;
  - Published 135 refereed journal publications;
  - Published 5 books, 62 book chapters;
  - Have 221 refereed or reviewed conference papers;
  - Delivered 373 professional conference or seminar presentations;
  - Organized or chaired 85 professional conferences;
  - 12 are journal editors or members of editorial boards
  - Have secured competitive research grants totaling approximately $4.1 million;
  - Receive funding from: NSF (NEES, ITR), DARPA, NIH, NRL, PITA, PDG;
  - 9 have received NSF- Career Grants;
  - 64% have received major research funding ($40K and above).