

A. L. Soyster

Director of Engineering Education and Centers
National Science Foundation (NSF)

B.S. Industrial Engineering - Penn State
M.S. Operations Research - Cornell
Ph.D. Operations Research - Carnegie Mellon

Dr. Soyster's service and accomplishments are presented in three categories:

- I. Penn State
 - Head of Industrial Engineering (1981-1996)
- II. Northeastern
 - Dean of Engineering (1997-2006)
- III. Academic/Notable Achievements
 - Throughout Career
- IV. NSF Engineering Division Director(2006-Present)
Education and Centers

I. Penn State (Head of Industrial Engineering 1981-1996)

- (1) IBM Total Quality Grant (1992) – PI
(One of eight schools supported by IBM)
- (2) NSF Learning Factory (1993) – PI
(3 million dollar grant)
- (3) Joint Masters in Quality and Manufacturing - PI
(NSF Technology Reinvestment Plan)
- (4) Department ranked in top five in U.S. (1994)
(And ever since)
- (5) First named Penn State Department
(Hal and Inge Marcus)

II. Northeastern (1997-2006)

- (6) Applications more than double and SAT rises from 1155 to 1273 over decade
- (7) FIRST Robotics introduced (1997), Gateway Faculty created (1998), GE Master Teacher Team (1999) which helps explain the freshmen retention at 94% (88% within College)

- (8) NU Undergraduate Engineering ranked #53 in U.S. News and World Report (2006)
- (9) CAMMP (1997), CenSSIS (2000) and NSF Nanomanufacturing (2004) awarded to Northeastern – only such engineering school in the U.S.
- (10) COE ranks first in New England in NSF Engineering support and second in the U.S. in support for FTE (2005)
- (11) Refereed publications triple to 530 in 2006 (Five per faculty)
- (12) Fellow status for 34 of 95 faculty (2006)
- (13) Annual Faculty/Staff Awards program includes recognition for Chemistry, Physics and Mathematics Outstanding Teachers
- (14) Outstanding Engineering Alumni Awards established in 2000 with 35 recipients to date
- (15) 47 Legacy Scholarships over past decade endowed at \$100,000 each
- (16) Carl Hurtig endows Engineering Distinguished Professors (2002)
- (17) George Kostas Nano Center established (2004)
- (18) NU Engineering Alumni Magazine into 10th year of publication
- (19) 20 million dollar Bernard Gordon Engineering Leadership Center established within CenSSIS (2006)

III. Academic/Notable Achievements

- (20) Penn State Outstanding Teaching Award
- (21) Penn State Outstanding Mentoring Award
- (22) Institute of Industrial Engineers
 - Fellow, 1987
 - Editor, IIE transactions, 1998-1992
 - Technical Innovations Award, 1992
 - Holzman Outstanding Educator Award, 1994
 - President of IIE, 2005-2006
- (23) 80 Refereed journal papers and now recognized with the seminal paper (1973) in the now emerging area of Robust Optimization
- (24) 8 million dollars in externally funded research

(25) Recipient of the 2006 Bernard Gordon Award for Engineering Innovation (National Academy of Engineering)