

INSIDE THIS ISSUE:

Spencer Schantz 1

Storer gives Founder's Day address 2

ISE Banquet 2

Stevin Lecture 3

Ph.D. Alum wins award 3

Upcoming Events 4

ISE Update

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## Welcome to our Mid-Year Update!

Dear Friends,

Welcome to our ISE (mid-year) Update! I hope you had an enjoyable holiday season, and I wish you a happy and successful 2010.

I am thrilled to announce that during this year's annual banquet, the ISE Distinguished Alumni Award will be awarded to Lee Iacocca '45 and Dr. Paul E. Torgersen '53. Both of these alums have made a tremendous impact in academia and industry and we are excited to honor them. See page 2 for more details.

The renovations of the first floor are under way. The new computer lab area is cleared for construction, which will start as soon as the last permissions are authorized. We are also moving ahead with renovation plans for upgrading the Man-Tech lab. We hope to begin as soon as the first phase of the computer lab renovation is completed. Updates on both of these projects will be featured in our 2010 Newsletter.

We are currently in the middle of two faculty searches. The assistant professor position attracted more than 190 applicants, and the interviewing process has already begun. The search for a senior professor is moving at a different pace, but we are working hard to ensure that we will have two new excellent faculty members by the fall 2010 semester.

The department has completed a major reorganization of the master's program. We will offer M.S. and M.Eng. degrees in Industrial and Systems Engineering with various focus areas, such as Operations Research and Logistics and Supply Chain. Within the new program we will also offer a Quality Engineering certificate. The Management Science name is changing to Management Science and Engineering to have a clearer differentiation between our engineering degrees and similar degrees from the business school. We are happy to announce that these have been approved by the

college and will be implemented starting next semester.

Going along with the university's strategic plan and the exploding interest in health care, with Bob Storer's leadership the department has developed a proposal for a "Health and Systems Engineering" M.Eng. program. We will be working with potential partners such as Lehigh Valley Health Network and St. Luke's to refine and implement the curriculum. The program's first classes are expected to start in the fall of 2011.

Please feel free to send me your memories, opinions, ideas, news about your achievements, or anything else you may want to share.

All the Best,



Tamás Terlaky  
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## 2010 Spencer Schantz Lecture

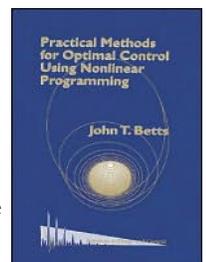
The ISE Department is pleased to announce that John T. Betts from Boeing will be the 2010 Spencer C. Schantz Lecture speaker. The lecture will be held on Friday, April 16, 2010, in the Perella Auditorium starting at 2:30 p.m.

Dr. Betts has been an acclaimed aerospace researcher at Boeing, and just recently announced his retirement. He has published several papers and books, including *Practical Methods for*

*Optimal Control Using Nonlinear Programming*.

The lecture series is endowed in the name of the late Spencer C. Schantz, who graduated from Lehigh in 1955 with a B.S. in Industrial Engineering. Following progressive responsibilities with several electrical manufacturing companies, in 1969 he founded U.S. Controls Corporation and became its first CEO and President. The Spencer C. Schantz Distinguished Lecture Series was established by his

wife, Jerelyn, as a valuable educational experience for faculty, students, and friends of Lehigh's Industrial and Systems Engineering Department. Past speakers in this series have included William R. Pulleybank (IBM), Cynthia Barnhart (MIT), and John McGlade '76, '80G (Air Products).





**Bob Storer giving Founder's Day address**

*"At times, they [students] love us and at times, they hate us. They will, however, rise to literally any challenge. Witnessing this growth is truly the most rewarding experience at Lehigh."*

*- Bob Storer*

## Bob Storer Gives Founder's Day address

The Lehigh community gathered to honor the legacy and vision of university founder Asa Packer and recognize the contributions of faculty and administrators this past October.

The Founder's Day address was delivered by Bob Storer. Earlier this year, Storer was named the fifth ISE Department recipient of the Lindback Faculty Award, which is presented to a senior faculty member for distinguished teaching.

Storer spoke of former department faculty and Lindback win-

ners Wally Richardson and George Kane and their dedication to the university and the ISE Department students.

He also talked about the experience of being a parent of a Lehigh student. Through his daughter, he's gained a deeper appreciation of the university's educational experience.

"She is typical of the vast majority of Lehigh students—dedicated and hardworking."

Storer also discussed the hard work that the IBE students en-

gaged during their time at the university.

"It's a tough four years for them," he said. "At times, they love us and at times, they hate us. They will, however, rise to literally any challenge. Witnessing this growth is truly the most rewarding experience at Lehigh."

"All who participate in the endeavor of teaching," he said, "share a simple and moral obligation: to truly and genuinely care about students and their education. From this, I believe, all else flows naturally."

## ISE Banquet Honors Lee Iacocca and Dr. Paul E. Torgersen

The ISE Department is thrilled to announce that during this year's annual banquet, the ISE Distinguished Alumni Award will be awarded to Lee Iacocca '45 and Dr. Paul E. Torgersen '53. Both of these alums have made a tremendous impact in academia and industry and we are excited to honor them.

Born and raised in Allentown, Lee Iacocca graduated from Lehigh in 1945. He began his professional career as an engineer at the Ford Motor company immediately following graduation. After working with Ford for over 30 years, he was hired to lead the Chrysler Corporation as President and CEO. Mr. Iacocca introduced Chrysler's K-car series and the 1984 T115 minivan and saved Chrysler. As a philanthropist, Mr. Iacocca has donated millions of dollars to various institutions and charitable foundations.

As a member of the Lehigh Board of Trustees, he chaired the fundraising campaign to purchase the Mountaintop Campus from Bethlehem Steel and jointly started the Iacocca Institute. In June 2005, Mr. Iacocca was named by CNN as the fifth most influential business leader of the past 25 years, edged out by the likes of Bill Gates and Warren Buffet. In 2007, Conde Nast's Portfolio magazine named Iacocca the 18th greatest CEO of all time. According to Wharton Business School, he is among the top 25 most influential business leaders.

Paul E. Torgersen graduated from Lehigh in 1953. After studying at Lehigh, Torgersen went on to earn his M.S. and Ph.D. from Ohio State University. Torgersen first arrived at Virginia Tech in 1967 as the Industrial Systems Department head. By 1970 he was Dean of Engineering. In 1990, Torgersen became president of Virginia Tech's Corporate Research Center.

Dr. Torgersen has served as chairman of the engineering Deans' Council, was elected to the National Academy of Engineering, and has authored or co-authored five books - two translated into Japanese. In 1993, he began a seven year term as the fourteenth President of Virginia Tech. During his terms as dean and as president, 62,191 diplomas presented to Virginia Tech graduates were signed by Paul E. Torgersen. The new engineering building and bridge was named after Dr. Torgersen's formal retirement from Virginia Tech in 2000. He has taught at least one class every semester since 1967 and continues to teach on a part-time basis.

The department would like to invite all of our alumni and friends to attend our April 29 Banquet. If you would like to attend, please visit [www.lehigh.edu/ise/banquet10.html](http://www.lehigh.edu/ise/banquet10.html) to register.



**Lee Iacocca '45**



**Paul E. Torgersen '53**

# Tamás Terlaky Gives the 12th Annual Simon Stevin Lecture

Tamás Terlaky delivered the 12th Annual Simon Stevin Lecture on Optimization in Engineering, held in September in Leuven, Belgium. This time, the lecture was the featured event of a broader optimization conference, the 14th Belgian-French-German Conference on Optimization that covered all aspects of optimization and its application. Each year, an outstanding international scholar is invited to give the Stevin lecture as a way to report on the latest progress in the development of optimization algorithms and their applications in engineering, and this year the honor went to Terlaky.

"Optimization is everywhere in the engineering sciences," says Terlaky. "Civil engineers strive to design the strongest possible structures from certain material; electrical engineers strive to design the fastest computer chips; mechanical and aerospace engi-

neers strive to design optimal products and objects, such as engine blocks or airplane wings. Industrial and systems engineers optimize industrial processes, supply chains, and financial products. Ultimately, optimization enhances competitiveness and efficiency. As an industrial engineer, it is a great honor to be invited to present in this high-impact lecture series."

The invitation recognizes the significance of Terlaky's research in optimization methodology, and his decades-long effort to facilitate the interaction between the engineering and optimization communities. It also coincides with the 10th anniversary of launching the journal *Optimization and Engineering*, for which Terlaky serves as founding editor-in-chief.

Terlaky gave a talk on "Linear Optimization and Extensions:

Three decades of polynomial time algorithms." During his talk, Terlaky enlightened the impact of polynomial time algorithms on the theory and practice of optimization. The first polynomial time algorithm for linear optimization was proposed by former Rutgers University professor Leonid Khachiyan in the late '70s.

"Optimization, especially in engineering, is interdisciplinary by nature. The core methodology is mostly mathematical; the design and analysis of algorithms impacts various areas of mathematics, statistics, and computer science," says Terlaky. "For example, medical researchers, physicians, and optimization experts are collaborating to design optimal radiation therapy for cancer treatment—advancing methods of killing off cancer with as little harm to surrounding cells as possible."



**"Ultimately, optimization enhances competitiveness and efficiency."**

**- Tamás Terlaky**

## Ph.D. alum wins second place in George E. Nicholson Student Paper Competition



James Ostrowski '07 Ph.D. (second from right) with other George E. Nicholson Student Paper Competition winners.

James Ostrowski '07 Ph.D. won 2nd place in the 2009 George E. Nicholson Student Paper Competition at the INFORMS Annual Meeting.

The Nicholson Student Paper Competition is held each year to honor

outstanding student papers in the field of operations research and the management sciences. The finalists presented their papers in sessions held at the beginning of the conference.

### Did You Know?

*The Lehigh Board of Trustees officially approved the independence of the Industrial Engineering Department from Mechanical Engineering in June 1959.*



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## Upcoming Events!

Please be sure to join the ISE Department for these upcoming events!

To read more about these events, please visit [www.lehigh.edu/ise/news.html](http://www.lehigh.edu/ise/news.html).

### Spencer Schantz Lecture

Friday, April 16, 2010

### CVCR Spring Symposium

May 12 & 13, 2010

<http://www.lehigh.edu/~inchain/index.html>

### Reunion Weekend

Celebrating Reunion years '40, '45, '50, '55, '60, '65, '70, '75, '80, '85, '90, '95

May 21 & 22, 2010

ISE Alumni Breakfast - Saturday, May 22, 2010

### Homecoming Weekend

October 2010

### Development of ISE

If you would like to make your gift, please contact Anne Bork at 610-758-6361 or at [amb308@lehigh.edu](mailto:amb308@lehigh.edu) or visit [mylehigh.lehigh.edu](http://mylehigh.lehigh.edu), then click the "Donate" box. Under Gift Purpose, highlight P.C. Rossin College of Engineering and Applied Science, then in the "If Other or Student Club, please specify," box enter Industrial and Systems Engineering Department.