CHEMICAL ENGINEERING DIVISION ACTIVITIES

TWENTY-SECOND ANNUAL LECTURESHIP AWARD TO T. W. FRASER RUSSELL

The 1984 ASEE Chemical Engineering Division Lecturer was T. W. Fraser Russell of the University of Delaware. The purpose of this award lecture is to recognize and encourage outstanding achievement in an important field of fundamental chemical engineering theory of practice. The 3M Company provides the financial support for this annual lecture award.

Bestowed annually upon a distinguished engineering educator who delivers the Annual Lecture of the Chemical Engineering Division, the award consists of $1,000 and an engraved certificate. These were presented to this year's Lecturer at the Annual Chemical Engineering Division Banquet, held at the University of Utah on June 26, 1984.

NOMINATIONS FOR 1984 AWARD SOLICITED

The award is made on an annual basis with nominations being received through February 1, 1985. The full details for the award preparation are contained in the Awards Brochure published by ASEE. Your nominations for the 1985 lectureship are invited. They should be sent to Professor E. Dendy Sloan, Colorado School of Mines, Golden, CO 80401.

NEW DIVISION OFFICERS ELECTED

The newly elected ChE Division officers are: Deran Hanesian, Chairman; D. Barker, Past Chairman; Dendy Sloan, Chairman Elect; Bill Beckwith, Secretary-Treasurer; and Lamont Tyler, Director.

ChE's RECEIVE HONORS

Four chemical engineering professors have recently been recognized for their outstanding achievements. **Phillip C. Wankat** received the George Westinghouse Award for early achievement as a teacher and a scholar; **James E. Stice** was presented with the Chester F. Carlson Award for improving instructional techniques; **Peter R. Rony** was the recipient of the Delos Award for excellence in laboratory instruction; and **Chung King Law** received the Curtis W. McGraw Research Award for outstanding early achievement in research.

ChE book reviews

ENGINEERING OPTIMIZATION: METHODS AND APPLICATIONS

By G. V. Reklaitis, A. Ravindran, K. M. Ragsdell: John Wiley and Sons, NY (1983) 14 Chapters, 648 pages, $39.95

Reviewed by
A. W. Westerberg
Carnegie-Mellon University

This is an excellent text from which to teach optimization techniques to engineering students. It can be used at either the senior or graduate level. All of the most important methods are presented that have appeared in the literature. The level of detail given on each method should allow one to see how and where to apply it to small up to moderate-sized practical problems.

The book concentrates on methods for solving well behaved, continuous variable optimization problems. The methods included are unconstrained single and multivariable optimization, linear programming, and a host of methods for equality and inequality constrained nonlinear problems. Not considered are methods directly applicable for models containing ordinary and partial differential equations, nor is there very much on solving problems where some or most of the variables can take on only discrete values. Also the book does not consider decomposition techniques, sparse matrix techniques and the like, concepts usually needed to allow the techniques covered to be applied to really large problems. The book is already lengthy so it is completely reasonable that it limits its coverage to the topics that it does.

The style of presentation is generally excellent. The authors have concentrated on appealing

Continued on page 185.