

# CHALMERS

## Review of Teaching Effectiveness at Chalmers University

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Professor Arthur J. Ragauskas visit to Chalmers University of Technology

Professor Arthur J. Ragauskas, Institute of Paper Science and Technology, was invited to be a guest lecturer for the Ph.D. course "Fibre Line", held at the Department of Forest Products and Chemical Engineering, Chalmers University of Technology. The objective of the Ph.D. course was to give in-depth knowledge about modern pulping and bleaching processes with respect to process chemistry as well as chemical engineering principles of fiber line operations. Professor Ragauskas gave lectures dealing with the following topics:

- Structure of residual lignin in paper pulps after kraft pulping;
- Chemistry of lignin-removing and lignin-retaining bleaching;
- Kinetics of delignification;
- Process descriptions (layouts);
- Equipment used in bleaching plants;
- Environmental aspects of bleaching;
- New bleaching technologies (e.g., enzymes);
- Characterization of pulp (e.g., viscosity, kappa-number, optical properties).

The students also prepared reports under the supervision of Professor Ragauskas dealing with one of the topics above.

Professor Ragauskas gave, as one of the leading researchers in the field of bleaching of paper pulps, an extensive coverage of the chemistry and physics of lignin-removing and lignin-retaining bleaching. Professor Ragauskas' lectures were well planned, logical, and very informative. The students greatly appreciated that Professor Ragauskas always had time to answer questions dealing with the topics of the Ph.D. course as well as questions related to the Ph.D. students research interests.

Professor Ragauskas' visit to the Department of Forest Products and Chemical Engineering has been a great success and it is an honour for us that Professor Ragauskas had the opportunity to share his extensive knowledge, in this and other research fields, with both students and faculty. We hope that Professor Ragauskas' visit will strengthen the bond between Chalmers University of Technology and the Institute of Paper Science and Technology.

Sincerely,

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