



ADVANCING THE TECHNICAL DEVELOPMENT, PRODUCTION, PROCESSING AND APPLICATION OF IRON AND STEEL

FROM: Association for Iron & Steel Technology (AIST)  
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## **FOR IMMEDIATE RELEASE**

### **AIST AWARD WINNER ANNOUNCES 2006 LECTURE SCHEDULE**

*Making Steel: "Always Go Back to the Basics; Never Forget That the Action Is on the Floor"*

PITTSBURGH, August 28, 2006 – **Pierre H. Dauby**, 2006 AIST John F. Elliott Lecture Award recipient, recently announced his 2006 lecture schedule. Dauby, vice president — process technology, Danieli Rotelec, received this award for his passion to guide steelmaking trainees through the labyrinth of physical chemistry and process metallurgy, and to create motivating technical relationships with industry personnel.

#### **WHERE:**

- **Case Western Reserve University**, Cleveland, Ohio — Sept. 12
- **Colorado School of Mines**, Denver, Colorado — Sept. 14
- **University of Illinois at Urbana-Champaign**, Urbana, Illinois — Sept. 20
- **McMaster University**, Hamilton, Ontario, Canada — Oct. 3
- **University of Cincinnati**, Cincinnati, Ohio — Nov. 9

#### **WHAT:**

**Title:** *Making Steel: "Always Go Back to the Basics; Never Forget That the Action Is on the Floor."*

**Abstract:** Steel is the backbone of our country. Applications are endless: from defense to automotive, construction, appliances, energy and the nuts and bolts used in one's everyday life. Thanks to scientists, operators, suppliers, investors and others, extraordinary progress has been made in the steel manufacturing processes over the more than 40-year career of the author. And there is more to come! A number of applications of physics, chemistry, physical-chemistry, and thermodynamic principles will be described that, paired with floor-operation observations, led to current, well-proven technologies and practices. Mathematical modeling, fluid flow mechanics, magneto-hydrodynamics, and robotics offer additional opportunities for shaping steelmaking processes in the coming years. An exciting job indeed!

#### **WHO:**

Pierre H. Dauby, vice president — process technology, Danieli Rotelec

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Pierre H. Dauby has both a scientific/research background and operating experience. For 18 years (1964–1982), Pierre Dauby developed and applied mathematical models of steel/slag reactions to industrial steelmaking converters, focusing on refining high- and low-phosphorus hot metal. He used both self-developed charge calculation models and theoretical physical/chemical programs to control operations' endpoints and understand and solve problems in metals processing. His models were implemented in more than 25 steel shops. During the subsequent 20 years, Dauby focused on clean steel practices, casting and refractory projects, including studies on steel/strand lubrication, shell formation, inclusion formation, inclusion transport and inclusion removal/absorption with the purpose of eliminating surface and internal defects on slabs and coils. In January 2002, Dauby joined Danieli Rotelec, which focuses on the use of electromagnetic stirring in continuous casting. The move provided the opportunity for industrially testing his single-roll flow concept. Dauby received an *Ingénieur Civil Métallurgiste* degree from the University of Louvain (1962) and was appointed head — steelmaking department at CRM in Belgium (1975), director — primary at LTV Steel in the United States (1987) and vice president — process technology at Danieli Rotelec in France (2002). He won numerous awards, including the American Iron and Steel Institute Medal (2000), and was a distinguished member of the Iron & Steel Society (2001). He has authored and co-authored more than 50 technical publications, and served as a short-course instructor and an advisor to students in Belgium, Argentina and the United States.

Nominations for 2007 AIST Association-level Awards are currently being accepted. Deadline for submittal is Oct. 31, 2006. For more information, visit [www.aist.org](http://www.aist.org) or call (724) 776-6040, ext. 1.

The Association for Iron & Steel Technology (AIST) was formed on Jan. 1, 2004, by the merger of the Iron & Steel Society and the Association of Iron and Steel Engineers. AIST is an international technical association representing more than 9,000 iron and steel producers, their allied suppliers and related academia. The Association is dedicated to advancing the technical development, production, processing and application of iron and steel.

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Editor's Note: For an individual photo or more information, please contact Stacy Varnecky, AIST Membership Communications Manager; Phone: (724) 776-6040, ext. 637 or E-mail: [svarnecky@aist.org](mailto:svarnecky@aist.org).