GRADUATE MATERIALS SOCIETY NEWSLETTER

ISSUE 4 , SPRING

APR 01 2008

DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING

FUN FACTS OF OUR HISTORY

Today's modern department of materials science and engineering traces its origins back to the year 1887 when a single course in metallurgy was offered for the first time in the catalogue of the seven-year-old institution known as Case School of Applied Science.

The first course was taught by Albert W. Smith, who had just graduated from Case in June and was immediately appointed as an instructor in chemistry.

The department awarded its first graduate degree, a master of science in metallurgy in 1922 and its first doctorate in 1942.

In 1953, the department was enriched by the inauguration of the Van Horn Library, a gift from Estelle and Kent Van Horn in honor of his father, the Count. Annual donations from the Van Horn family and Alcoa provide funds to buy current technical volumes and to subscribe to some 20 periodicals in the field.

1956 saw the establishment of the Republic Steel Distinguished Professorship. At first the endowed chair was used to attract internationally recognized scholars and engineers to spend one or two semesters teaching and doing research in the department. Among the early holders of the chair were Paul Lacombe of the University of Paris, John Christian of the University of Oxford, Frank Nabarro of the University of Witwatersrand, South Africa, and David Pugh from Scotland's National Engineering Laboratory.

In 1961, the department moved into its new home from Rockefeller, the six-story $2.7 million Charles M. White Building, named for the former president and chairman of Republic Steel Corporation. It contained 71,450 square feet of floor space and a quarter of a million dollars' worth of new research equipment then. Mr. White melted a steel ribbon to pen the building officially.

Public attention was centered on the department in 1970 when Radcliffe, Heuer and cooper undertook electron and optical microscope studies of materials brought back from the surface of the moon.

With Lynn Ebert's development in 1976 of the nation's first sports materials course, more national attention was focused on the department. Ebert's course, a popular freshman elective, has been widely copied throughout the United States.

1887-1922
Mining and Metallurgical Engineering
1922-1969
Metallurgy and Mining Engineering
1969-1987
Metallurgy and Materials Science
1987-Present
Materials Science and Engineering

SEMINAR OF THIS MONTH

Apr 01 **Yet-Ming Chiang**, Massachusetts Institute of Technology

"Impact of Materials Innovations on Rechargeable Battery Technology for the Coming Electric Vehicle Revolution"

Apr 22 **John Halloran**, University of Michigan

"Portable Solid Oxide Fuel Cells: Technology, Manufacture, and Commercialization"

Apr 15 **Warren H. Hunt, Jr.**, The Minerals, Metals, and Materials Society (TMS)

"The Materials Professional of Tomorrow: A Metallurgist's View"

Apr 29 **Lorna J. Gibson**, Massachusetts Institute of Technology

"Mechanical Behavior of Cells on Tissue Engineering Scaffolds"

Happy Hour

Friday 5 p.m. UG Lounge

Apr 04 Prof Pirouz

Apr 11 Prof Ernst

Apr 18 Prof Payer

Apr 25 Prof De Guire

- *Don't miss out the **Research ShowCASE** started on April 16-17 at Veale Convocation Center.*

CASE WESTERN RESERVE UNIVERSITY EST. 1826

RESEARCH SHOWCASE
CASE WESTERN RESERVE UNIVERSITY