

## NEW BOOKS

### A book by Prof. Arvo Ots **OIL SHALE COMBUSTION TECHNOLOGY** (in Estonian) Tallinn, 2004, 768 pages



Professor Arvo Ots has written a monograph on oil shale combustion. The book is being translated into English and published in 2006.

Official presentation of the monograph took place at the Department of Thermal Engineering of Tallinn University of Technology. The book was appreciated by the audience.

The monograph on oil shale combustion deals with all aspects of combustion technology. It consists of 15 chapters, each one making a whole, an introduction and subject index. There are 768 pages including 364 figures in the book. References are given at the end of chapters; their total number exceeds 500.

Fundamental questions of oil shale combustion technology dealt with in the monograph are:

- oil shale as a fuel – characterization, deposits in Estonia, mining, composition;
- oil shale combustion technologies, their analysis and comparison;
- grinding of oil shale, granulometry;
- combustion of pulverized oil shale, ash formation processes;
- oil shale wastes and environment;
- fouling of boiler heating surfaces with ash deposits, cleaning technologies;
- heat transfer in boiler heating surfaces;
- high-temperature corrosion and wear of boiler metal.
- Publication of the monograph was financially supported by Eesti Energia Ltd. and Narva Power Plants Ltd.

Prof. Arvo Ots graduated from Faculty of mechanical engineering of Tallinn University of Technology with *cum laude* diploma of an engineer in thermal power engineering in 1955. He defended PhD thesis in 1958, and DSc in 1968. In 1969 he was awarded the degree of Professor, in 1983 was elected Member of Estonian Academy of Sciences. Finnish Academy of Technical Sciences elected him its member in 1994. Arvo Ots has worked at Tallinn University of Technology since 1960, as Professor Emeritus since 2003.





Rector of Tallinn University of Technology Andres Keevallik and prorector Peep Sürje gratulating the author of the monograph at the Department of Thermal Engineering



Director of the Department of Thermal Engineering Aadu Paist



Director General of Narva Power Plants Ltd. Rein Talumaa



Senior researcher Hendrik Arro



Senior researcher Ants Martins



Representative of Foster Wheeler Mati Kaare