

RESUME

Efim Korytnyi, Ph.D.

Personal Data

Date of Birth: August , 10, 1950

Family status: Married, 2 children

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Work: Laboratory for Clean Combustion, Bergmann Campus, Ben- Gurion University, P.O.653, Beer-Sheva

Education

1985 Ph.D. in Electrical & System Engineering, Novosibirsk Electrical Engineering Institute, Russia

1973 – 1976 Post-graduate studies, Novosibirsk Electrical Engineering Institute, Russia

1967 – 1972 M.S.E. in Systems Engineering, Novosibirsk Electrical Engineering Institute, Russia

Professional Experience

2004 – Present Laboratory for Clean Combustion (LCC), Ben-Gurion University of the Negev

2003 – 2004 VersaMed Medical Systems, Ltd., Israel - software engineer, algorithms expert

1993 – 2002 Associate Professor at the Department of Applied Mathematics, Novosibirsk State Technical University, Russia

1985 – 1993 Assistant Professor at the Department of Applied Mathematics, Novosibirsk Electrical Engineering Institute, Russia

1976 – 1985 Senior Lecturer at the Department of Management Information System, Novosibirsk Electrical Engineering Institute, Russia

Dr. Korytnyi obtained his M.Sc. degree in Systems Engineering from Novosibirsk Electrical Engineering Institute, Russia, specializing in design of optimal experiments for engineering systems and in simulation and optimization of electric power systems. He received his Ph.D. in 1985 from the same institute specializing in electrical & system engineering. Dr. Korytnyi's expertise is in research in coal and biomass combustion and gasification, fouling and slagging, experimental system and data analysis, modeling heat and mass transfer, and modeling combustion. Dr. Korytnyi is working since 4002 at the Laboratory for Clean Combustion, Ben- Gurion University. During 2003–2004 he worked as software engineer and algorithms expert in VersaMed Medical Systems, Ltd., Israel. Prior to immigrating to Israel, he was associate professor at the Department of Applied Mathematics in Novosibirsk State Technical University, Russia; Dr. Korytnyi carried out research in the field of testing and prediction of coal combustion in a test furnace and utility boilers; fouling and slagging in coal-fired utility boilers and computational fluid dynamics; gasification of biomass and carbon containing wastes. Dr. Korytnyi developed a tool to predict the behavior of coal gasification in entrained flow. Some of these researches have been supported by Israel Ministry of National Infrastructure (MNI), Israel Ministry for the Environmental Protection and Israel Electric Corporation (IEC). Dr. Korytnyi is authoring and coauthoring about thirty archival publications related to his expertise

Main Activities

Research in coal combustion and gasification, fouling and slagging, experimental system and data analysis, modeling heat and mass transfer, modeling combustion.

Research Experience and Project Development

- Testing and Prediction of Coal Combustion in a Test Furnace and Utility Boilers, supported by MNI and IEC
- Testing and Prediction of Coal Gasification in a Test Furnace and Utility Boilers, supported by MNI
- Development of a Tool to Predict the Behavior of Coal Gasification in Entrained Flow, supported by MNI
- Reduction of SO_x Formation, supported by MNI
- Fouling and slagging in coal-fired utility boilers, supported by MNI
- Thermochemical Conversion of Municipal Solid Waste and Scrap Tires, supported by Israel Ministry of the Environment
- Dechlorination of chlorine containing wastes by using subcritical water, , supported by MNI
- Gasification of carbon containing wastes by using supercritical water, supported by Israel Ministry of the Environment
- Computational fluid dynamics
- Logic design and implementation the oxygen flow control algorithm in medical equipment for mechanical ventilation
- Large volume data analysis
- Design of Optimal Experiments for Engineering Systems