

**Monday October 31  
Plenary Session**

**Martina Shehata**



Martina Shehata is a Professional Engineer who specializes in materials handling for the mining and minerals industries. She graduated from the University of Hanover in Germany with a degree in Civil Engineering in 1980, and then earned a Master of Science in Civil Engineering from the University of Calgary in 1984. In 1986 she joined Krupp Canada as a Project Engineer and now holds the position of Vice President Engineering. In this capacity she is responsible for managing Krupp Canada's engineering and project management activities. Martina has been actively involved in the design and supply of many of Krupp Canada's innovative systems and equipment in both North and South America. These systems include: conveyors systems including large overland conveyors, ship-loaders; stockyard systems; stockpiling and reclaiming systems and large crushing plants for the Oil Sands industry. Author of several technical papers, Martina is a Member of the CIM and serves on the Industrial Advisory Council at the University of Calgary.

## **Raj K. Singhal**

**International Organizing Committee Chair**

*Federal Government of Canada  
and Universite Laval, Quebec, Canada  
International Journal of Surface Mining,  
Reclamation and Environment*



# **Paul Clark**

## **Director of Fuel Supply for TransAlta Utilities**



Paul is presently Director of Fuel Supply for TransAlta Utilities, a position that he has held for the past fourteen years. In this capacity, he is responsible for the Alberta coal operations, strategic planning for the Centralia coal operations, research of solid fuel technologies, and due diligence on new coal opportunities.

Mr. Clark holds a B.Sc. in Mining Engineering and an M.Sc. in Mineral Industry Management from the University of Alaska. His education in the mining area started in 1962 and he graduated from Haileybury School of Mines in 1964.

His mining career of over thirty years has included senior positions in engineering, operations and consulting. He is a Fellow with the Canadian Institute of Mining and Petroleum, a professional engineer in Alberta, a Director of the Alberta Chamber of Resources, and a Director of the Science Alberta Foundation. He is TransAlta's technical representative on the Canadian Clean Power Coalition, and is a Trustee for Alberta Energy Research Institute's EnergyINet.

Paul is the 2005 recipient of the Canadian Institute of Mining & Petroleum's Coal Award.

**Raimondo Ciccu**  
**Professor**  
**Department of Geoenvironmental Engineering**  
**and Environmental Technologies**  
**University of Cagliari, Italy**



Raimondo Ciccu graduated in Mining Engineering at the University of Cagliari in 1965. Shortly after he served the National Research Council until 1973 covering the position of Senior researcher. From 1974 to 1981 he was Chief Sector at the Sardinian Mining Board (EMSa) and meanwhile he acted as Managing Director of a major mining Company in Italy. In 1982 he joined the University of Cagliari as Associate Professor and from 1983 as Full Professor of Surface Mining and Land Reclamation and at present he is Head of the Department of Geoenvironmental Engineering and Environmental Technologies.

His fields of interest range from excavation and cutting of rocks using traditional and advanced technologies (diamond tools and waterjet) to environmental issues.

Professor Ciccu has authored about 250 scientific and technical papers, most of them discussed at International Conferences, and he is responsible of many research contracts with the industry as well as scientific coordinator of EEC-supported projects.

**Uday Kumar**  
**Professor and Head**  
**Division of Operation and Maintenance Engineering**  
**Luleå University of Technology, Sweden**



Dr. Kumar obtained his B. Tech from India during the year 1979. After working for 6 years in Indian mining industries, he joined the postgraduate program of Luleå University of Technology, Luleå, Sweden and obtained a PhD degree in field of Reliability and Maintenance during 1990. He worked as a Senior Lecturer and Associate Professor at Luleå University 1990-1996. In 1997, he was appointed as a Professor of Mechanical Engineering (Maintenance) at University of Stavanger, Stavanger, Norway. Since July 2001, he has taken up the position as a Professor of Operation and Maintenance at Luleå University of Technology, Luleå, Sweden.

He is Director of Luleå Railway Research Centre at Luleå University. His research interests are equipment maintenance, reliability and maintainability analysis, Product support, Life Cycle Costing, Risk analysis, System analysis, etc. He is also member of the editorial boards and reviewer for many international journals. He has published more than 100 papers in International Journals and Conference Proceedings.

**Michael Karmis**



Dr. Michael Karmis is the Stonie Barker Professor, Department of Mining and Minerals Engineering, Virginia Tech and the Director of the Virginia Center for Coal and Energy Research.

His broad research interests are in mine planning and design, ground control and the sustainable development of energy and natural resources. He has authored more than 150 scientific papers, reports, Proceedings volumes and textbooks. He has directed or co-directed about 40 major research projects and has served as advisor to 30 graduate students.

A Professional Engineer in the U.S.A. and a Licensed Engineer (Eur Ing) in Europe, Dr. Karmis has been active in consulting with the minerals industry, consulting companies, government organizations and legal firms. He served as the 2002 President of the Society for Mining, Metallurgy and Exploration (SME) and the 2002/03 President of the Society of Mining Professors. He is a Distinguished Member of the SME, a Fellow of the Institute of Quarrying and a Fellow of the Institute of Mining and Metallurgy. He has received numerous recognitions and awards by major scientific, professional and industrial organizations.

**Andrew Robertson**



Andy Robertson has his Civil Engineering degree and PhD in Rock Mechanics from the University of the Witwatersrand, South Africa, and 40 years of experience in mining geotechnics. He immigrated to Canada in 1977 and was one of the founders of each of the firms SRK Consultants, Gemcom Software International Inc, Robertson GeoConsultants Inc. and InfoMine Inc., all of which are thriving companies at this time. His consulting practice in mining geotechnics, mine waste management and long-term mine planning, closure and sustainability is international and Andy spends much of his time guiding teams of engineers in these topics of mine development in various countries in North and South America, Africa, Europe and Asia. His interest in mining industry information, computers and Internet have come together in the establishment of InfoMine.com, the web site that so many in the mining industry have become familiar with. He has been a keen participant and proponent in the development of on-line distance learning for mining technology in his support and guidance of EduMine.com the Professional Development section of InfoMine.

**Monday October 31  
Luncheon Speaker**

**Peter Lighthall**  
Vice President, Mining  
AMEC Earth & Environmental



Peter Lighthall is a geotechnical engineer with over thirty years of experience in consulting, project management and engineering management. He graduated from the University of British Columbia, with a B.A.Sc., Civil Engineering in 1971, and from the University of London, Imperial College of Science and Technology with an M.Sc. in Civil Engineering Soil Mechanics in 1979. His primary fields of expertise are in design, construction, operation and closure of tailings and mine waste management systems and in mining environmental management. Peter has worked throughout North America, as well having extensive international experience, including Latin America, Eastern and Western Europe, Russia and the CIS, China, the Middle East, Australia and Papua New Guinea.

**Tuesday November 1  
Luncheon Speaker**

**Dr. Jonathan Peck**  
Queens University



Jonathan Peck graduated with a B. Sc. in Geology from, Concordia University, Montreal in 1984. He subsequently completed an M. Eng. and Ph.D. in Mining Engineering at McGill University, Montreal in 1986 and 1989 respectively. Following the completion of his academic studies, he took on the combined role of Assistant Professor in the Dept. of Mining Engineering, McGill University and held this post from 1989 to 1998. In parallel, he was also the Laboratory Manager for the Canadian Centre for Automation & Robotics in Mining (CCARM) from 1989 to 1992. CCARM was jointly operated by McGill and Ecole Polytechnique. He was also appointed as an Adjunct Professor in the Department of Civil Engineering at Ecole Polytechnique from 1998 to 2002. In May 2005, he was appointed as Professor and Head of the Department of Mining Engineering at Queen's University in Kingston, Ontario.

Dr. Peck's industry experience included the definition, development and deployment of advanced technologies to monitor, control and guide mobile mining equipment. Following his departure from McGill in 1992, Dr. Peck founded and formed AQUILA Mining Systems Limited and remained as President & CEO until this company was purchased by Caterpillar in 2002. Under his guidance, AQUILA grew to become the leading vendor of advanced technologies for blasthole drills on a global basis. Following the acquisition of AQUILA, Dr. Peck took on a Senior Manager's role within Caterpillar Global Mining and the Information Products & Solutions Division with responsibilities for New Product Introduction (NPI), Strategic Business Development and MineStar Product Development. In 2004, he left Caterpillar and formed Peck Tech Consulting Ltd. to provide services to the global mining industry related to advanced technology evaluation, selection, specification and utilization.

His current research interest areas relate to open-pit, underground mining, quarrying and waste management process optimization using advanced technologies, new recycling and energy processes and technologies, intelligent and autonomous drilling, excavation and transportation systems, mine-wide systems integration and knowledge engineering and skill capture and advanced training techniques. These topics will be cornerstones of Dr. Peck's research initiatives at Queen's and will form the basis for an Advanced Systems group to be formed at the same institution in the near future.

**Tuesday November 1  
Banquet Speaker**

**Bill Fleming  
Vice President – Operations - Elk Valley Coal Corporation**



Mr. Fleming was appointed Vice President Operations in 2005.

Prior to this appointment, he held the position of Vice President, Projects. Mr. Fleming worked for Teck Cominco before joining Elk Valley holding, in the positions of General Manager Coal in 2003, and General Manager of Elkview Mine from 1997 to early 2003. Mr. Fleming joined Teck Cominco in 1987.

Mr. Fleming is a member of the Association of Professional Engineers of Ontario. He holds a bachelors degree in applied science in mine engineering from Queen's University.

**Wednesday November 2  
Luncheon Speaker**

**Dr. Vera Muzgina**



Vera S. Muzgina graduated from the Kazakh Polytechnic Institute (Almaty – The Republic of Kazakhstan), Mining Faculty. After finishing her post graduate studies at the Kunayev's Institute of Mining, she obtained a Ph.D. in technical sciences. For several years she worked at the Laboratory of Filling Operations Problems at Ore Mines of the D.A. Kunayev's Institute of Mining. She is a specialist in technology of filling operations and solid waste used for filling mixtures and in mining ecology. Since September 2001, she has been the Chief scientific secretary at the National Center on Complex Processing of Mineral Raw Materials of the Republic of Kazakhstan. In 2004 she received the degree of Higher Doctorate in technical sciences. She has published more than 90 scientific papers.