International Mining Technology HALL OF FAME 2015

SURFACE MINING

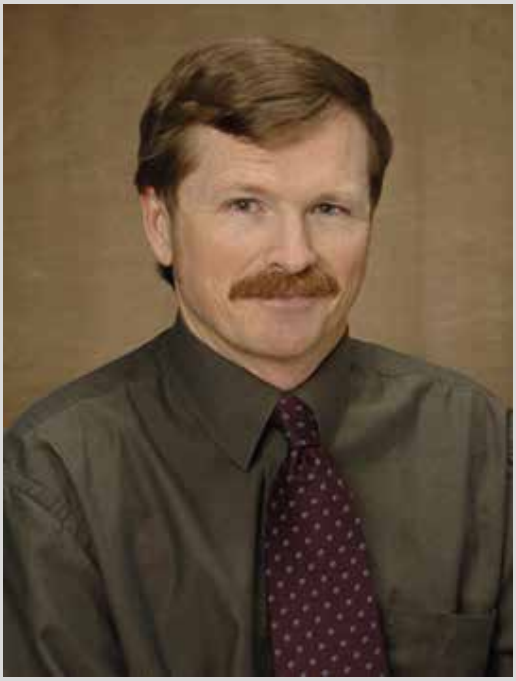
Dr Jonathan Peck

Dr Jonathan Peck is a global leader in the automation of mobile mining equipment. He was a co-founder and CEO of Aquila Mining Systems Ltd.; which was subsequently sold to Caterpillar. In this role, he led the development effort that:

- Pioneered the use and development of real-time high precision GPS (HPGPS) guidance products for both blasthole drills and cable shovels in the mid-1990s. These developments set the standards for this technology, which is still in use 20 years later
- In the mid-1990s, deployed production grade, ruggedised PC-based mobile computers for use on a wide range of blasthole drill makes and models. Besides production monitoring, the applications included rock recognition, based on data collected by drill monitors, and retrofit drill control systems. All subsequent work on rock recognition has been based on the work Peck did as a PhD candidate and later at Aquila
- Delivered the first full integrated production and diggability monitoring, load weighing, health, and HPGPS guidance products for cable shovels in the mid-1990s.

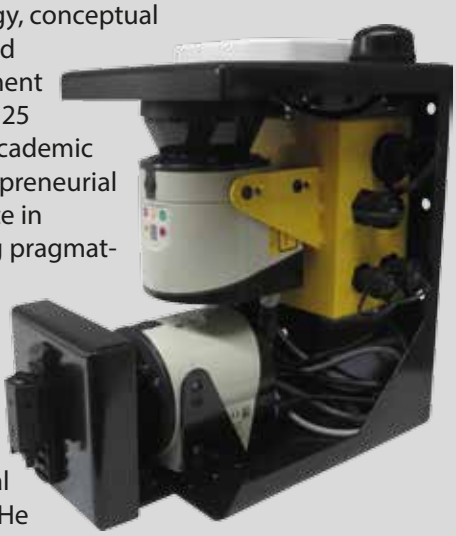
Following his departure from Aquila (Caterpillar), Peck served as Head of the Department of Mining Engineering Queen's University (Kingston, Ontario) and established his consulting firm in 2004 (Peck Teck Consulting) Through Peck Tech, he has continued innovation in the development of new blasthole drill related technology including advanced rock recognition algorithms, augmented GPS devices, and autonomous drill operation.

In summary, Jonathan Peck over the last 25 years has pioneered a number of technologies for mobile equipment in the



surface mining industry. These developments continue to be the underlying technology for products in use today. The products have had a significant impact in reducing costs and increasing productivity in the worldwide surface mining industry.

Peck is a leader in innovative technology, conceptual design and development with over 25 years of academic and entrepreneurial experience in delivering pragmatic and robust mining technology solutions to a global clientele. He holds both Ph.D. and



Peck Tech's uGPS Rapid Mapper™

Peck's Aquila AMP innovation

Master's degrees in Mining Engineering from McGill University, as well as a Bachelor of Science with Specialization in Geology from Concordia University.

He has held a variety of positions throughout his career including Laboratory Manager with the Canadian Centre for Automation and Robotics in Mining (CCARM) based at McGill University, the MineStar Strategic Business Development Manager, NPI Manager and Product Manager in the Information Products and Solutions Division with Caterpillar, and as Founder, President and CEO of AQUILA Mining Systems.

Leveraging this experience, he formed Peck Tech Consulting as a means to provide unique services related to advanced technology evaluation, assessment, and selection for both underground and open-pit customers globally. As the demand for these services grew, Peck Tech embarked on also offering complete turn-key, advanced product development and manufacturing services to mining customers, technology providers and equipment suppliers.

Peck continues to maintain close ties with the academic world and most recently served as Head and Professor of the Department of Mining Engineering at Queen's University from 2005 to 2007. He remains an Adjunct Professor at Queen's responsible for the co-supervision of graduate students. He also co-supervises graduate students within the Department of Mining and Materials Engineering at McGill University. Peck Tech also has and continues to directly support and collaborate on NSERC CRD projects with McGill, Queen's, and Concordia.