

Waterjet Technology

Abrasive Waterjet Cutting

- Jet structure analysis/cavitation
- Modeling of surface roughness
- Demilitarization

Depth cut control

- Modeling of pocket milling with abrasive waterjets

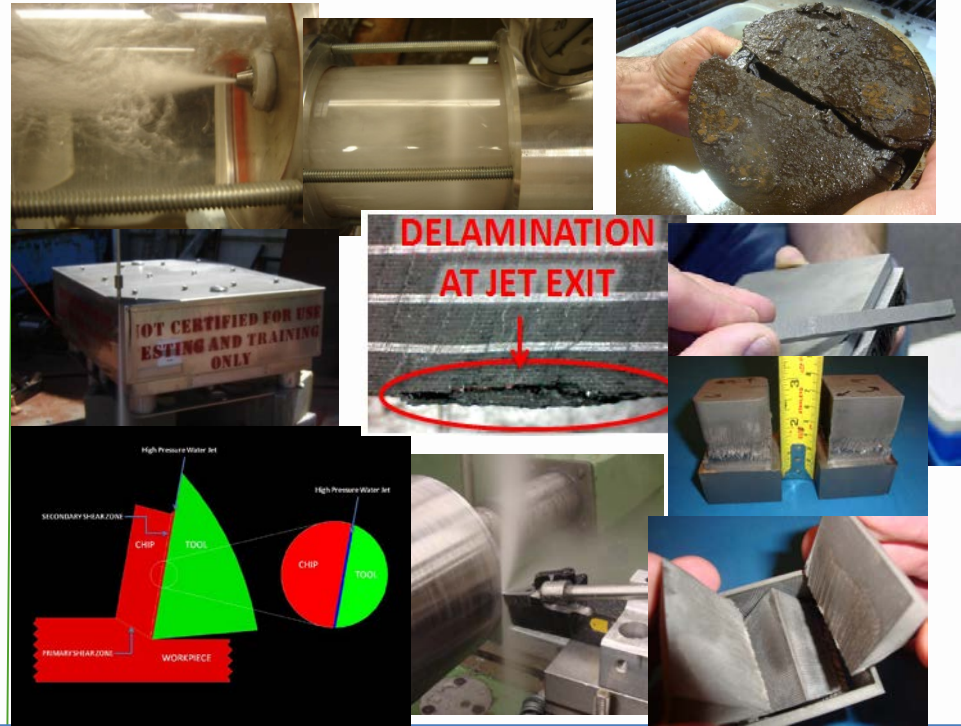
Mineral Processing

- Selective mining
- Determination of threshold pressure
- Borehole mining
- Oil recovery from oil sands

Nanosize coal

- Comminution with waterjets to submicron size

Mining/Manufacturing Processes with waterjet assistance



PoC: Greg Galecki, Assoc. Prof., Mining and Nuclear Engineering, ggalecki@mst.edu



Funding

- Department of Navy
- Industry
- Department of Education

Keywords

- Abrasive waterjet cutting, comminution, mineral processing, cavitation, modeling, mining processes, waterjet assistance, nanotechnology,

Recognitions

- Served on U.S. Water Jet Technology Association Board of Directors, 2007-2011
- Chancellor's recognition of the issuance of US Patent No. 8,257,147. 2013
- Invited lecture "Waterjet Technology", under European Union, 2015