

## Scott Thomas Lockwood

Argonne National Laboratory  
Energy Systems Division  
9700 S. Cass Ave.  
Argonne Illinois, 60439

Office: 630-252-6527  
Fax: 630-252-9016  
E-mail: [slockwood@anl.gov](mailto:slockwood@anl.gov)

### 04-95 – present: Senior Technician for Energy Systems Division, Process Technology Research Group.

- Working with research scientists on the initial setup of analytical equipment for the MEF project.
- Demolishing the control room of the CWDD project to convert into new laboratory space.
- Planned, prepared and installed the new Inert Anode laboratory area.
- Reconfigured the Ultrafast Boriding Small Furnace laboratory area.
- Planned, prepared and installed the Ultrafast Boriding Large Furnace laboratory area.
- Planned, prepared and installed a nitrogen gas supply line from an existing nitrogen dewar to provide a continuous supply of nitrogen gas to three different experiments simultaneously. Future expansion into Building 370 will include the MEF project and the Production Scale Furnace Boriding project.
- Worked closely with research scientists to bring the Auto Shredder Residue project to commercialization, from the lab, hibay and in the field.
- Worked closely with research scientists in the reconfiguration of the Salt Cake Plant to prepare for production of MUP for BASF.
- Worked closely with research scientists in the construction of and initial testing of the Salt Cake Plant.
- Worked in the field testing a polyurethane washing and drying machine for possible commercialization.
- Constructed a small scale pilot wet separation system for the recovery of polymers from ASR and appliance fluff.

## 11-92 to 04-95: Technician, Advanced Photon Light Source.

- Worked in the water group to bring the APS cooling water systems online and maintain the water systems.
- Built electronic data acquisition boxes for the cooling water systems.
- Built one of a kind Kicker Magnets for the APS Par ring, Booster ring and Storage ring.
- Built a ceramic tube coating station for coating the inside of the Kicker magnet beam tubes with an electrically conductive ink.
- Built and tested Quadrupole and Sextapole magnets for the APS Storage Ring.
- Performed electrical cooling water tests on complete magnets and individual magnet coils.
- Wound the coils for a prototype 1M Dipole Storage Ring magnet.

## 09-89 to 06-92: Technician, Fermi National Accelerator Laboratory.

- Instructed and oversaw General Dynamics technicians on the construction of 15M Dipole superconducting supercollider magnets.
- Built prototype 17M and 15M dipole superconducting supercollider magnets for the SSC project.
- Developed methods of monitoring magnet coil resistance during the assembly process.
- Worked with physicists and engineers on assembly traveler instruction manuals for the assembly of SSC magnets.
- Worked with engineers on the assembly of specialized tooling for the fabrication of SSC magnets.
- Worked closely with engineers and physicists on a prototype 1M superconducting supercollider magnet.
- Worked on the Fermi Lab Tevatron replacing ceramic insulators on the spool box correction coil magnets.

## Awards

- Argonne National Laboratory Quality and Safety Recognition Award March 2005. Identifying and reporting counterfeit items, and exemplary attention to safety in the planning, construction and operation of a plastics separation pilot plant.
- Argonne National Laboratory Pacesetter Award, August 1998. Excellence in achievement and performance which truly surpasses normal job expectations. The installation of a plastics separation facility in the field for possible commercialization.

## Patent Applications

- **METHOD FOR THE SEPARATION OF OVERLAPPING DENSITY POROUS MATERIALS FROM LESS POROUS MATERIALS**  
United States Patent Application 20080251426
- **PROCESS AND APPARATUS FOR SEPARATING SOLID MIXTURES**  
United States Patent Application 20100078363

## Education

- Associates Applied Sciences Degree, Automotive Service.  
Joliet Junior College, 1985.
- Plainfield High School, 1982.

## Community Service

- Member of the St. Patrick's Church Men's Club.
- Chairperson on the St. Patrick's Family Fest Committee.
- Chairperson on the St. Patrick's Alumni Gala Committee.
- Greeter at St. Patrick's Church.