

Thomas Hare

Microscopy Laboratory Manager

KEY PROJECTS

- Developed “satellite” microscopy laboratory and implemented integration systems for communication with corporate headquarter analytical laboratory. Developed calibration, resolution and material standards programs for Microscopy laboratory. Developed and implemented Quality Assurance program for Microscopy Laboratory, including PLM, PCM, SEM and TEM.
- Developed X-Ray analyzer program for products/materials testing division of Microscopy laboratory. Projects included high profile legal issues, as well as time sensitive programs for large public educational institutions and private industry clientele.
- Aided in product development of large multinational corporation product line. Instrumental in identifying causes of certain product failures. Analytical data incorporated into operating line improvements.
- Instrumental in development of identification system for industrial gems for large multinational industrial client.

AFFILIATIONS

Electron Microscopy of America (EMSA)
New York Society of Electron Microscopy
Northeastern Association for Microscopy
Southeastern Electron Microscopy Society
National Asbestos Council
White Lung Association

FIELDS OF COMPETENCE

- Transmission Electron Microscopy
- Scanning Electron Microscopy
- X-Ray Analysis Techniques
- Polarized Light Microscopy
- Phase Contrast Microscopy
- Management and supervision of Microscopy technicians
- Quality Assurance

EXPERIENCE SUMMARY

- Twenty five years experience in operation and maintenance of SEM, TEM, image analyzer and x-ray analysis. Maintenance of all microscopy equipment including calibration, resolution and material standards.
- Proficient in analysis of all matrices on SEM, TEM, image analyzer and x-ray analyzer.
- Managerial and supervisory responsibilities for all Microscopy laboratory personnel, including personnel training, equipment maintenance and overall Quality Assurance review.

CREDENTIALS

New York State Licensed Asbestos Inspector/Supervisor
Analytical Electron Microscopy
Air & Water Pollution Control
BS Environmental Science, State University of New York, Plattsburgh, New York
AAS, Public Health, Sullivan County Community College

PUBLICATIONS

“AEM Investigation of Electromigration in Aluminum Test Junctions”, IEEE Holm Conference, 1996, T. Hare.
“Conduction Through Surface Films on Aluminum Wire”, IEEE Holm Conference, 1988, T. Hare.
“Investigation of Nickel Plated Aluminum Wire Using Analytical Electron Microscopy”, IEEE Holm Conference, 1987, T. Hare.