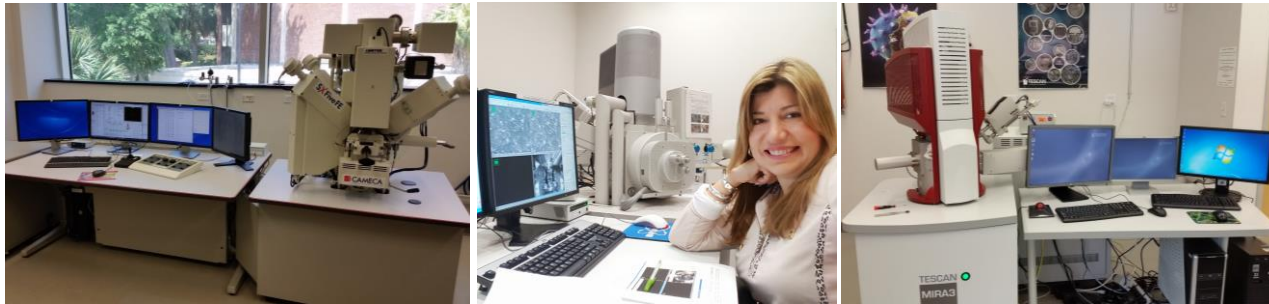




## Luisa Amelia Dempere, RSC Director

- B.S. in Chemistry, Universidad de Oriente, Cumaná, Venezuela
- M.S. in Materials Science and Engineering, University of Florida
- Ph.D. in Materials Science and Engineering, University of Florida
- Journal of Materials Science and Nanotechnology – Editorial Board
- Professional memberships: Microscopy Society of America (MSA), Microanalysis Society (MAS), Southeastern Microscopy Society (SEMS)

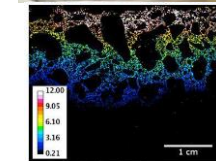
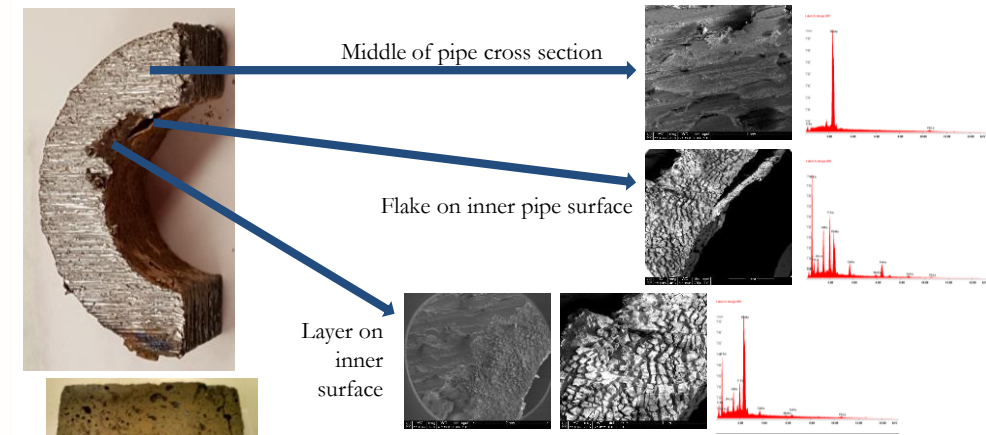
## Microscopy & Microanalysis



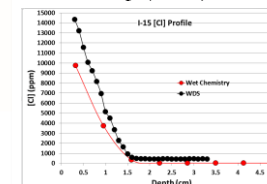
- Electron ProbeMicro Analysis (EPMA) / Wavelength Dispersive Spectroscopy (WDS)
- Scanning Electron Microscopy (SEM) / Energy Dispersive Spectroscopy (EDS)
- Variable Pressure Scanning Electron Microscopy (VP-SEM)
- Atomic Force Microscopy (AFM)



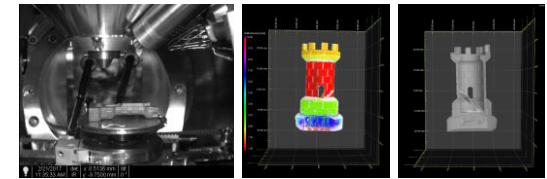
## Materials Characterization



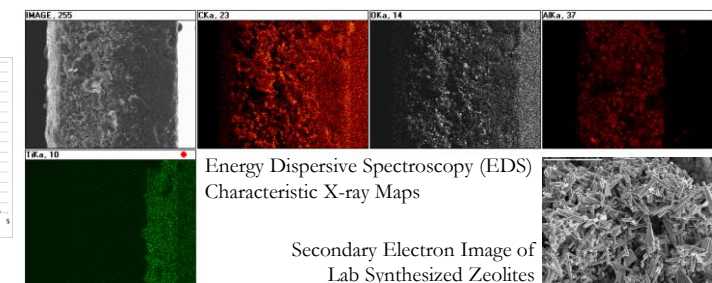
Chlorine Concentration Map (WDS)



Concentration Profile – Cl Diffusion in Concrete



Bulk Sample Analysis to Complement Tomography Imaging and Data



Energy Dispersive Spectroscopy (EDS) Characteristic X-ray Maps

Secondary Electron Image of Lab Synthesized Zeolites

