Emerging Capabilities in Powder Diffraction

Developments in generators, optics, high speed and high resolution detectors, combined with increasing processing power and storage capability in PC’s, are enabling new fields of analysis and an expansion of capabilities in X-ray powder diffraction. The four plenary speakers will address emerging fields, and the challenges in analyzing and interpreting diffraction data.

Opening Remarks
Dr. Tim Fawcett

9:15 a.m. – 9:50 a.m.
Dr. Artem Abakumov
EMAT, University of Antwerp

Developing Advanced Databases for Total Pattern Analysis
Dr. Timothy Fawcett
ICDD

9:55 a.m. – 10:30 a.m.
Introduction to Structure Analysis of Modulated and Composite Crystals
Dr. Vaclav Petricek
Institute of Physics ASCR

Break: 10:30-10:45

10:45 a.m. – 11:20 a.m.
DATA QUACKER: A New Program to Filter and Funnel Data into the ICDD
Dr. Diane Sagnella
ICDD

11:25 a.m. – 12:00 noon
10 Years of Protein Polycrystallography
Dr. Robert Von Dreele
Argonne National Labs