

# Plenary Session

Tuesday, 24 March 2009

9:00 a.m.

ICDD Headquarters  
Conference Room A

## 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.

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### Opening Remarks

Dr. Tim Fawcett

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9:15 a.m. – 9:50 a.m.

### Transmission Electron Microscopy and X-ray Powder Diffraction for Solution of Modulated Structures: A Synergetic Approach

Dr. Artem Abakumov  
EMAT, University of Antwerp

### Developing Advanced Databases for Total Pattern Analysis

Dr. Timothy Fawcett  
ICDD

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9:55 a.m. – 10:30 a.m.

### Introduction to Structure Analysis of Modulated and Composite Crystals

Dr. Vaclav Petricek  
Institute of Physics ASCR

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**Break: 10:30-10:45**

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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

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11:25 a.m. – 12:00 noon

### 10 Years of Protein Polycrystallography

Dr. Robert Von Dreele  
Argonne National Labs

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