**Session F-3 Quantitative XRF**
**Organized by: J. Gilfrich, Emeritus, SFA, Inc./NRL, Washington, DC**
**Co-chair: W.T. Elam, University of Washington, Redmond, WA**

2:00 F03 QUANTITATIVE ANALYSIS BY X-RAY INDUCED TOTAL ELECTRON YIELD (TEY) COMPARED TO XRFA – Invited
H. Ebel, Institut für Festkörperphysik, Vienna University of Technology, Vienna, Austria

2:30 CONSIDERATIONS FOR OPTIMIZING PRECISION AND ACCURACY OF MULTILAYER THIN FILM MEASUREMENTS – Invited
A. Wittkopp, Thermo Noran, Middleton, WI

3:00 F05 STANDARDLESS FP ANALYSIS OF THIN FILMS AND MULTIPLE LAYER COATINGS
W.T. Elam, R.B. Shen, B. Scruggs, J. Nicolosi, EDAX, Inc., Mahwah, NJ

3:20 BREAK

3:50 F25 IMPROVEMENTS IN XRF SPECIMEN PREPARATION USING THE DRIED RESIDUE METHOD: GALLIUM IN PLUTONIUM
C.G. Worley, Los Alamos National Laboratory, Los Alamos, NM

4:10 F37 HALF ABSORBTION PEAK - A SPECTRAL ARTIFACT
D. Kenning, KeyMaster Technologies, Kennewick, WA

## FRIDAY MORNING (A.M.) SPECIAL SESSIONS

**C-4 Cement Analysis**
**Organized by: R. Yellepeddi, Thermo ARL, Ecublens, Switzerland**

8:30 PROCESS AND QUALITY CONTROL IN THE CEMENT INDUSTRY USING X-RAY INSTRUMENTS: CHALLENGES AND SOLUTIONS – Invited
J. Hook, Lehigh Cement Company, Union Bridge, MD

9:00 D089 ADVANCES IN QUANTITATIVE XRD ANALYSIS FOR CLINKER, CEMENT (CEM I, CEM II, CEM III) AND CEMENTITIOUS ADDITIONS – Invited
G. Walenta, Lafarge Central Research Laboratories, France
T. Füllmann, Swiss Federal Institute of Technology, Lausanne, Switzerland

9:30 F48 NON-ROUTINE ANALYSIS IN CEMENT INDUSTRY: ENVIRONMENTAL CONTROL, ALTERNATIVE FUELS AND OTHER CENTRAL LAB APPLICATIONS USING STANDARD-LESS ANALYSIS PROGRAMS – Invited
A. Buman, R. Yellepeddi, Thermo ARL, Dearborn, MI

10:00 BREAK

10:20 D049 DEVELOPING AN ASTM STANDARD TEST FOR QUANTITATIVE X-RAY POWDER DIFFRACTION ANALYSIS OF PORTLAND CEMENTS AND CLINKER
P. Stutzman, National Institute of Standards & Technology

10:40 D050 THE USE OF XRD PATTERNS TO EVALUATE THE COMPRESSIVE STRENGTH OF STABILIZED AGGREGATES
N.N. Khoury, M. Zaman, J.G. Laguros, University of Oklahoma, Norman, OK



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