

Materials Technology Laboratory / Steel Research Group
25th Annual Meeting: "SRG 24"
Northwestern University, 23 – 24 March 2009
Final Program

Monday, 23 March

Day 1: Design Research Tools

**Ford Design Center
ITW Room**

<http://www.northwestern.edu/campus/maps.html>

8:00 AM Registration (Coffee & Pastry)

8:30 Overview Prof. G.B. Olson, Northwestern

A. matCAT: 3D Tomographic Characterization & Representation

9:15 LEAP Nanotomography M. Mulholland and Prof. D. N. Seidman, Northwestern

9:45 SEM/LOM Tomography & Representation S. Chan, Northwestern, & Dr. H-J Jou, QuesTek

10:15 BREAK

10:30 FSL Tomography M. Echlin and Prof. T. Pollock, U Michigan

11:00 D3D @ NRL Dr. R. Fonda, ONR/NRL

B. 3D Microstructural Simulation

11:30 Precipitation Simulation Prof P.W. Voorhees, Northwestern & Dr. H-J Jou, QuesTek

12:00 Strength & Toughness Modeling Dr. J-S. Wang, QuesTek

12:30 PM LUNCH

Allen Center

1:30 Microvoid Softening & TRIP Prof. D.M. Parks, MIT

2:00 Multiscale Fracture Prof. W-K. Liu & Prof. B. Moran, Northwestern

2:30 Fatigue Nucleation Prof. D. McDowell, GIT

3:00 BREAK

3:15 DEFORM-3D Applications Dr. A. Bandar, SFTC

C. Quantum Engineering

3:30 FLAPW Applications Dr. Oleg Kontsevoi & Prof. A.J. Freeman, Northwestern

4:00 Bond Topological Analysis Dr. M. Eberhart, CSM

4:30 New Initiatives Prof. G.B. Olson, Northwestern

6:00 DINNER: Speaker: Prof. M. E. Fine, Northwestern

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Day 2: Design Applications

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8:15 AM Registration (Coffee & Pastry)

8:30 Overview Prof. G.B. Olson, Northwestern

A. Steel Designs

9:00 Blast Protection Systems Dr. F. Latourte & Prof. H. Espinosa, Northwestern

9:30 Blastalloys Z. Feinberg, Northwestern

9:50 Bridge Collapse Dr. Su Hao, Northwestern

10:15 BREAK

10:30 Bainite Simulation Dr. Y. Mizutani, Nippon Steel

11:00 AMS5922 & MMPDS/AIM Dr. C.J. Kuehmann, QuesTek

B. CyberAlloys

11:30 Ni Alloy Simulation Dr. J. Jung, QuesTek

12:00 Self-Healing Alloys Prof. M. Manuel, U Florida

12:30 PM LUNCH

Allen Center

1:30 Self Expanding Stents P. Adler, Medtronic Vascular

2:00 HP Shape Memory Alloys T. Jiang, Northwestern

2:20 TRIP Ti Design J. Tran, Northwestern

2:50 Al Alloy GB Cohesion Dr. S. Zhang, Northwestern

3:20 BREAK

3:35 FSW Al Alloys R. Glamm, Northwestern

3:55 Super Bubble & Beyond Dr. L. Morgret, Wrigley Global Innovation

4:30 ADJOURN