

Agenda for 3rd IAB Meeting

April 9th - 10th

University of Michigan
Ann Arbor, MI

Tuesday, April 9, 2002

Location: East Room, Pierpont Commons, North Campus, University of Michigan
2350 Hayward, Ann Arbor, MI 48109

7:15 AM: Registration and Continental Breakfast

8:00 AM: Opening Remarks – Professors Jun Ni / Jay Lee

**8:15 AM: Welcome – Professor James Bean, Associate Dean for Academic Affairs,
College of Engineering**

8:30 AM: Industrial Member Introductions

8:45 AM: National Science Foundation - Alex Schwarzkopf

9:00 AM: Industrial Presentation (Needs, Challenges, and Opportunities)

9:00 AM Rick Tyo
ATM Programs Staff
Intel Corporation

9:30 AM Weiping Wang
Managing Director
Micro Mobio Corporation
“Valuation & Financing of Your New Ideas”

10:00 AM Joe Kann
Vice President, Global Business Development
Rockwell Automation

10:30 AM: Break

10:45 AM: Brief Overview & Progress Review of IMS Center Activities

Jay Lee and Jun Ni
(Staff Updates, Progress, Membership Status,
Budget Overview, Project Status)

11:15 AM: Technical Presentations

- **Watchdog Agent™ Applications,**
Presenter: Dragan Djurdjanovic(UM)
*Researchers: Dragan Djurdjanovic(UM), Nicholas Casoetto(UM), Wang Xue(UWM),
Jihong Yan(UWM), Guofeng Tong(UWM)*
 - Drilling process
 - Welding process
 - Spindle Monitoring
 - Kone Elevator Door

12:00 PM: Lunch Break

1:00 PM: Technical Presentations

- **1:00 PM, Development of Device-to-Business (D2B™) Platform**
Presenter: Zaifeng Chen(UWM)
Researchers: Zaifeng Chen(UWM), Sk Ahad Ali(UWM), Gang Yu(UWM)
 - **1:20 PM, Performance Assessment of Production Equipment, Manufacturing Systems and Products**
Presenter: Guido(UWM)
Researchers: Guido(UWM), Gang Yu(UWM), Dae Sun Hong(UWM), Zaifeng Chen(UWM)
Demonstrations:
 - **Citation Custom Products Milling Machine**
 - **Kone Elevator Door System**
 - **1:40 PM, Modeling and System-Level Maintenance Decision Support Tool**
Presenter: Max Yang(UM)
Researchers: Max Yang(UM), Shery Chen(UWM), Simon Xu(UWM), Rhett Mayor(UM)
Demonstration:
 - **Methodologies for Mean-Time-Between-Degradation (MTBD) versus Mean-Time-Between Failure (MTBF)**
 - **Decision support tools for system-level maintenance**
 - **2:00 PM, Wireless Communication System Evaluation and Optimization Tools**
Presenter: Ivan Howitt(UWM)
Researchers: Ivan Howitt(UWM), Kei Hao(UWM), Seung Ham(UWM)
 - **2:20 PM, Peer-to-Peer Techniques for Networked Product Performance Assessment**
Presenter: Jun Zhang(UWM)
Researchers: Jun Zhang(UWM), Wen Hu(UWM)
- 2:40 PM, Tools for Multi-Parameter Based System Performance Evaluation**
Presenter: Dave Yu(UWM)
Researchers: Dave Yu(UWM), Hongbo Sun(UWM)

3:00 PM: Break & IMS Poster Sessions & Testbed Demonstrations

- **Watchdog Agent™ Algorithm Development**
Jihong Yan, Dragan Djurdjanovic, Nicholas Casoette, Wang Xue
- **Performance Assessment of Production Equipment, Manufacturing Systems and Products**
Guido, Irfan Shanti, George Qiao, Dae Sun Hong
- **Device-to-Business (D2B™) Platform**
Jay Lee, Zaifeng Chen, Hai Qiu, Sk Ahad Ali, Gang Yu
- **System-Level Modeling Tools and Methodology**
Sk Ahad Ali, Xiaohui Chen, Max Yang, Simon Xu
- **Wireless Communication System Evaluation and Optimization Tools**
Ivan Howitt, Kei Hao, Seung Ham

- **Peer-to-Peer Machine Networking**
Jun Zhang, Wen Hu
- **Tools for Multi-Parameter Based System Performance Evaluation**
Dave Yu, Hongbo Sun
- **Tools for Integration of Material Supply Chain: Services and MRO**
John Liu
- **IMS In-house Project on Cerebellum Model Arithmetic Computing (CMAC) Approach for Watchdog Agent™**
Jay Lee, Guofeng Tong

4:30 PM: Other WuMRC Poster Session and Laboratory Tour

5:30 PM: Depart for Restaurant (via carpooling)

6:00 PM: Reception and Dinner (Michigan League)
Introduction of New Members
Bill Miller (4G R&D)

Wednesday, April 10, 2002

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7:15 AM: Continental Breakfast

8:00 AM: Additional Proposed Projects

- **Tools for Integrating Maintenance Supply Chain for MRO**
John Liu(UWM) and Jay Lee(UWM)
- **Assessment on Vulnerability of Shop-Floor Information**
Muammer Koc(UWM), Jay Lee and Dave Fuchs
- **Economic Modeling (Tentative)**
Julie Simmons (UM)

9:00 AM: Evaluation and Feedback of Current & Proposed Research Areas

10:30 AM: Break

10:45 AM: Research Partnership Briefing

San Jose State University
University of Toronto
Massachusetts Institute of Technology

11:15 PM: Closed Door IAB Meeting & Working Lunch

Membership Status
Evaluation of in-kind
Financial Status
Legal Issues
IMS Spin-Off Strategies and Draft Plans
Date & Location of Next IAB Meeting

2:00 PM: Adjourn