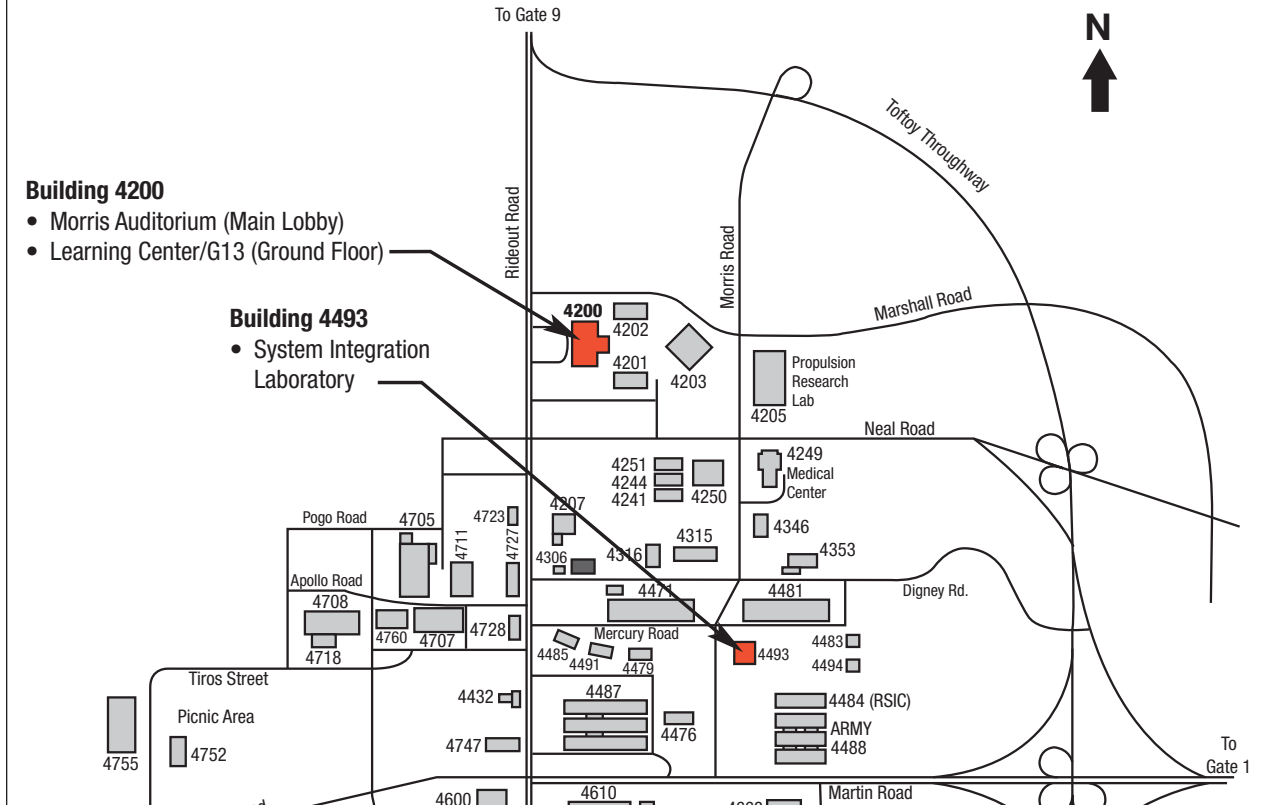


Marshall Space Flight Center



Building 4200

- Morris Auditorium (Main Lobby)
- Learning Center/G13 (Ground Floor)

Building 4493

- System Integration Laboratory

Task	Name
Forum Chair.....	Caroline Wang
Forum Co-Chair	Josh McNeil
Forum Co-Chair	Cathy White
Forum Co-Chair, Session Co-Chair	Carol Workman
Forum Co-Chair, Session Chair, Registration	Steve Hosner
Marketing Chair, Session Co-Chair	Lori Diaz
Marketing Co-Chair	Chad Leathers
Logistics Chair	Bennie Jacks
Media Relations Chair.....	Rod Roberts
NASA-Learning Center Coordinator	Tina Smith
Session Chair	Carolyn McMillan
Session Co-Chair	Richard Ciliax
Session Co-Chair	Beverly Hood
IEEE & INCOSE Liaison	Bob Robinson

Forum Support Organizations

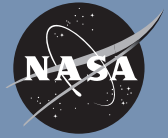
NASA MSFC, JSC, GSFC • U.S. Army • U.S. Air Force
 Teledyne Brown • SAIC • SEI • Dynetics • Westar
 Tec-Masters, Inc. • TechUSA • Boeing • Dynamic Concept
 Schafer Corporation • Intrinsic Technologies Corporation
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NASA/ARMY Systems and Software Engineering Forum



May 12 & 13, 2009
Marshall Space Flight Center
 Building 4200

NASA Marshall Space Flight Center is hosting the two-day NASA/Army Systems and Software Engineering Needs and Capabilities Forum, which features local, national and international subject matter experts from government, industry, research and academia. The first morning session features prominent systems and software engineering leaders sharing their 'View from the Top' and what they foresee on the near horizon. Over the succeeding one and a half days of the forum, other equally renowned subject matter experts delve into Software Formal Methods, Model Based Engineering, Complex Programmable Devices, Information Security Solutions for Net Readiness, Intellectual Property Protection, Technology Transfer Success Stories and CMMI. Attendees earn Continuous Learning points. Based on participant feedback, the committee plans to organize future sessions and workshops to delve deeper into topics of interest.

Keynote Session

May 12, 2009

8:30–11:30

Building 4200, Morris Auditorium



Mr. Roy Malone

Director, MSFC Safety & Mission Assurance
Opening Remarks



Mr. Dan Dumbacher

Director, MSFC Engineering Directorate
Presentation: NASA & Army Systems & Software:
Partnership for 50 Years & Counting



Mr. Rex Geveden

President, Teledyne Brown
Presentation: Software & Systems Complexity



Dr. William Lewis

Aviation Engineering Director, AMRDEC
Presentation: TBA



Dr. William Craig

Software Engineering Director, AMRDEC
Presentation: Software Reliability



Mr. Bob Savely

Chief Scientist Automation, JSC Robotics
& Simulation
Presentation: Human-Robot Interaction



Dr. Mike Hinchey

NASA, Consultant & Co-Director at the Irish
Software Engineering Research Center
Presentation: Evolving Critical Systems: A
Research Agenda for Software Engineering

Tuesday, May 12, 2009

Learning Center

► **Parallel Session I: Intellectual Property**

- Session Co-Chairs: Carolyn McMillan, Caroline Wang
- Building 4200/Room G13C

1:00–2:30

Intellectual Property: Patent, License, Copyright

- Jim McGroary/NASA MSFC

Government/Industry Intellectual Property Challenges

- Jerry Gabig

3:00–4:30

Technology Transfer Success Stories (VISAR)

- Dr. David Hathaway/NASA MSFC

► **Parallel Session II: Model Based Engineering**

- Session Chair: Steven Hosner/NASA MSFC
- Building 4200/Room G13D, Computer lab

1:00–2:30

Model Based Engineering Methodologies, AADL

- Bruce Lewis/AMRDEC SED; Dr. Dave Gluch/SEI

3:00–4:30

Model Based Engineering Methodologies SysML

- Theodore E. Kahn/ARC-PX

Wednesday, May 13, 2009

Learning Center

► **Parallel Session I: Complex Electronics**

- Session Chair: Richard Ciliax/AMRDEC SED
- 4200/Room G13D

8:30–10:00

Complex Electronics — CPLDs, FPGAs, ASICs

- Richard Ciliax/AMRDEC SED

10:30–12:00

**Management of FPGA & ASIC Development
for Critical Applications**

- Shawn Wallace/NASA MSFC

► **Parallel Session II: CMMI**

- Session Co-Chairs: Carol Workman, Lori Diaz
- Building 4200/Room G13C

8:30–11:30

CMMI

- Mike Phillips/SEI

► **Parallel Session I: Security**

- Session Co-Chairs: Beverly Hood, Paul Clark
- Building 4200/Room G13C

1:00–2:30

Information Protection

- Sandy Ring/Pikewerks Corporation

Some Real Science for Software Protection

- Charles P. Satterthwaite/Air Force Research Laboratory

**Policy-based Situation Understanding & Network
Management**

- Dr. Andrew Potter/Sentar

3:00–4:30

Computer Security Training & Demonstration

- Paul Clark/Dynetics

Application Security Toolchest

- Beverly Hood/Westar Aerospace & Defense

► **Parallel Session II: Systems/Software**

- Session Chair: Josh McNeil
- Building 4200/Room G13D

1:00–2:30

**Systems & Software Engineering Methodologies
Formal Methods, Self-managing Systems**

- Dr. Mike Hinchey/NASA

3:00–4:30

**Using Formal Methods for Requirements Modeling
& Validation**

Wednesday, May 13, 2009

Special Topic Sessions—No Registration Required

8:30–10:00

**Ares Real-Time Environment for Modeling, Integration
& Simulation w/Demonstration**

- Dr. Pat Tobbe/Dynamic Concepts Inc.
- MSFC Building 4493/System Integration Laboratory

10:00–10:30

Human-Robot Interaction

- Bob Savely/JSC
- Building 4200/Room G13 Learning Center (EMS)

1:00–2:30

Complex Electronics Demonstration

- Ben Harding/SAIC
- Building 4200/Room G13 Learning Center (EMS)