## MODELS 2009 – Program at a Glance – Workshops and Tutorials

<table>
<thead>
<tr>
<th>Time</th>
<th>Sunday October 4</th>
<th>Monday October 5</th>
<th>Tuesday October 6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Workshops</td>
<td>Symposia</td>
<td>Workshops</td>
</tr>
<tr>
<td>8:00 –</td>
<td>On-site registration</td>
<td>Chasm Creek B</td>
<td>ACES-MB'09</td>
</tr>
<tr>
<td>8:30 –</td>
<td>AOM: Aspect Oriented Modeling</td>
<td><a href="mailto:Models@run.time">Models@run.time</a></td>
<td>Chasm Creek A</td>
</tr>
<tr>
<td>10:00</td>
<td>MoDSE-MCCM: Models and Evolution</td>
<td>MoDeVVa09</td>
<td>FOSD</td>
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<tr>
<td>Workshops</td>
<td>NFPinDMSL: Non-Functional System Properties in Domain Specific Modeling Languages</td>
<td>OCL</td>
<td>Chasm Creek B</td>
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<tr>
<td></td>
<td>TWO MDE2009: Transformation and Weaving OWL Ontologies and MDE/MDA</td>
<td>Wind Star</td>
<td>MPM09</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:Models@run.time">Models@run.time</a>: The Pragmatics of OCL and Other Textual Specification Languages</td>
<td><a href="mailto:Models@run.time">Models@run.time</a></td>
<td>Wind River</td>
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<tr>
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<td>MoDeVVa09</td>
<td>MoDSE-MCCM: Models and Evolution</td>
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<td>OCL</td>
<td>NFPinDMSL: Non-Functional System Properties in Domain Specific Modeling Languages</td>
</tr>
<tr>
<td>10:00 –</td>
<td>Coffee Break: Mesa Verde Foyer</td>
<td>Doctoral Symposium</td>
<td>Educators’ Symposium</td>
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<tr>
<td>10:30</td>
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<td>Doctoral Symposium</td>
<td>Educators’ Symposium</td>
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<tr>
<td>14:00 –</td>
<td>Coffee Break: Mesa Verde Foyer</td>
<td>Coffee Break: Mesa Verde Foyer</td>
<td>T5: MDLE: Model Driven Language Engineering</td>
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</tbody>
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### Workshops:
- ACES-MB'09: Model Based Architecting and Construction of Embedded Systems
- MoDSE-MCCM: Models and Evolution
- MPM09: Multi-Paradigm Modeling
- NFPinDMSL: Non-Functional System Properties in Domain Specific Modeling Languages
- OCL: The Pragmatics of OCL and Other Textual Specification Languages
- MoDeVVa09: Model-driven Engineering, Verification, and Validation: Integrating Verification and Validation in MDE
- TWO MDE2009: Transformation and Weaving OWL Ontologies and MDE/MDA

### Tutorials:
- T4: MDE4DRE-QoS: Model-Driven Engineering for Quality of Service Provisioning in Distributed Real-time and Embedded Systems
- T5: MDLE: Model Driven Language Engineering

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1 Please see GPCE (Generative Programming and Component Engineering) and SLE (Software Language Engineering) co-located conference programs for session details.
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<thead>
<tr>
<th>Time</th>
<th>Wednesday October 7</th>
<th>Thursday October 8</th>
<th>Friday October 9</th>
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<tbody>
<tr>
<td>8:30 – 9:00</td>
<td>On-site registration</td>
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<tr>
<td>9:00 – 9:15</td>
<td>Opening remarks</td>
<td>Announcements</td>
<td>MODELS 2010 &amp; Announcements</td>
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<tr>
<td></td>
<td>Jean Bézivin, Session Chair</td>
<td>Robert France, Session Chair</td>
<td>Gregor Engels, Session Chair</td>
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<tr>
<td>10:30 – 11:00</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
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<tr>
<td>11:00 – 12:30</td>
<td>1a: (Meta) Model Modeling and Management</td>
<td>1b: Quantitative Modeling with UML</td>
<td>1c: Model Transformations and Constraints</td>
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<tr>
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<td>Wind River</td>
<td>Wind Star</td>
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<tr>
<td>12:30 – 2:00</td>
<td>Lunch</td>
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<tr>
<td>2:00 – 3:30</td>
<td>2a: Model Management</td>
<td>2b: UML in Practice and Quality Assurance</td>
<td>2c: Formalization of Model Transformations</td>
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<td>Wind River</td>
<td>Wind Star</td>
<td>Highlands</td>
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<tr>
<td>3:30 – 4:00</td>
<td>Coffee Break</td>
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<tr>
<td>4:00 – 5:00</td>
<td>3a: Scenario Modeling</td>
<td>3b: Business Application Development</td>
<td>3c: Model Synchronization and Change Propagation</td>
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<td>Wind River</td>
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<td>5:00 – 5:15</td>
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<td>5:15 – 6:00</td>
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<tr>
<td>6:00 – 8:30</td>
<td>MODELS 2009 Conference Reception</td>
<td>MODELS 2009 Conference Banquet</td>
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<tr>
<td>8:30 – 10:00</td>
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<td>Denver Downtown Aquarium</td>
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Welcome to MODELS 2009 – by Sudipto Ghosh & Rob Pettit

On behalf of the entire conference committee, we would like to welcome you to the MODELS 2009 conference. This year we have expanded the scope of the conference to include several new exciting and thought-provoking topics. We hope that you have a productive time at the conference, and that you enjoy the venue and social events we have planned. Some of the highlights this year include:

- Keynote speeches by Stephen Mellor, Larry Constantine, and Grady Booch.

- Scientific and Empirical Results papers: papers that describe innovative research and papers that focus on reporting project experience with model-driven development. All papers have undergone a rigorous review process. Each track had a dedicated program committee. Several members of the Scientific Track program committee served on the Empirical Results committee.

- An Educators’ Symposium to provide a forum for educators and trainers to meet and discuss their ideas and experience teaching modeling techniques and model-driven development.

- A Doctoral Symposium to provide mentoring and guidance regarding dissertation research and beginning a research career, as well as an international forum for interacting with other students and faculty.

- Exhibits that demonstrate on-going research and application of that research.

- Best Paper Award; the conference program includes 45 full and 13 short scientific and empirical papers. Of these, the difficult task of choosing the best paper fell to the Program Chairs. Thank you to all who submitted papers, and to the Program Committee who spent many hours reviewing them.

- The Most Influential Paper Award; a committee of prior conference and program chairs worked to pick the most influential paper from UML 1999. This paper is chosen from the conference papers of 10 years ago, based on its continued influence in our field.

In particular, we would like to thank The Aerospace Corporation for their generous contributions to the conference, and Springer for their sponsorship of the Best Paper and Most Influential Paper Awards. We would also like to thank MODEPLEX for their demonstrations, and our academic sponsors at Colorado State University for their administrative support.

Sudipto Ghosh and Rob Pettit
General co-chairs
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Room</th>
<th>Wind River</th>
<th>Wind Star</th>
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<tr>
<td>9:00 – 9:15</td>
<td><strong>MODELS 2009 Opening Remarks</strong> (Grand Mesa)</td>
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<tr>
<td>10:30 - 11:00</td>
<td><strong>MODELPLEX Demonstration</strong> Coffee Break (Grand Mesa pre-function area)</td>
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<tr>
<td>12:30 – 2:00</td>
<td><strong>Lunch</strong> (Grand Mesa A/B/C)</td>
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<tr>
<td>3:30 – 4:00</td>
<td><strong>Coffee Break</strong> (Grand Mesa pre-function area)</td>
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**Conference Details – Wednesday, October 7**

- **MODELS 2009 Opening Remarks** (Grand Mesa)
- **Keynote: Stephen J. Mellor - Models, Models, Models. So What?** Jean Bézivin, Session Chair (Grand Mesa)
- **MODELPLEX Demonstration** Coffee Break (Grand Mesa pre-function area)
- **(Meta-)Model Modeling and Management** (1a) Jean-Marie Favre, Session Chair Muller, Fondement, Baudry Modeling Modeling (Scientific) Aschauer, Dauenhauer, Pree Representation and Traversal of Large Clobjct Models (Scientific) Sen, Moha, Baudry, Jezequel Meta-model Pruning (Scientific)
- **Quantitative Modeling with UML** (1b) Sébastien Gérard, Session Chair Shousha, Briand, Labiche A UML/MARTE Model Analysis Method for Detection of Data Races in Concurrent Systems (Scientific) Boskovic, Hasselbring Model Driven Performance Measurement and Assessment with MoDePeMART (Scientific) Lloyd, Jürgens Security Analysis of a Biometric Authentication System using UMLsec and JML (Empirical)
- **Model Transformations and Constraints** (1c) Thomas Weigert, Session Chair Chenouard, Jouault Automatically Discovering Hidden Transformation Chaining Constraint (Scientific) Horváth, Varró CSP(M): Constraint Satisfaction Problem over Models (Scientific) Kleiner, Albert, Bézivin Parsing SBVR-based Controlled Languages (Empirical)
- **Lunch** (Grand Mesa A/B/C)
- **Model Management** (2a) Jon Whittle, Session Chair Thum, Schwind, Schader SLIM - A Lightweight Environment for Synchronous Collaborative Modeling (Scientific) Gerth, Küster, Engels Language-Independent Change Management of Process Models (Scientific) Bendix, Emanuelsson Requirements for Practical Model Merge - an Industrial Perspective (Empirical)
- **Formalization of Model Transformations** (2c) Pierre-Alain Muller, Session Chair Jurack, Taentzer Towards Composite Model Transformations using Distributed Graph Transformation Concepts (Scientific) Ehrig, Ermel, Hermann, Prange On-the-Fly Construction, Correctness and Completeness of Model Transformations based on Triple Graph Grammars (Scientific) De Lara, Guerra Formal Support for QVT-Relations with Coloured Petri Nets (Scientific)
- **Scenario Modeling** (3a) Richard Paige, Session Chair Brosch, Kappel, Langer, Seidl, Wieland, Wimmer, Retschitzegger, Schwinger An Example is Worth a Thousand Words: Composite Operation Modeling By-Example (Scientific) Mussbacher, Amyot, Whittle Refactoring-Safe Modeling of Aspect-Oriented Scenarios (Scientific) Maoz, Metsili, Katarat Model-Based Testing Using LSCs and S2A (Empirical, 15 min presentation)
- **Model Synchronization and Change Propagation** (3c) Ivan Porres, Session Chair Ráth, Varró, Varró Change-driven Model Transformations (Scientific) Wolfe, Graham, Phillips An Incremental Algorithm for High-Performance Runtime Model Consistency (Scientific) Helming, Koegel, Naughton, David, Shterev Traceability-based Change Awareness (Scientific, 15 min presentation)
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<td>9:15 – 10:30</td>
<td><strong>Keynote: Larry L. Constantine - Interaction Design and Model-Driven Development</strong>&lt;br&gt;Robert France, Session Chair (Grand Mesa)</td>
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<tr>
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<td><strong>Coffee Break</strong> (Grand Mesa pre-function area)</td>
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<tr>
<td>11:00 – 12:30</td>
<td><strong>Language Specification and Annotation</strong> (4a)&lt;br&gt;Jean-Michel Bruel, Session Chair&lt;br&gt;Soltenborn, Engels&lt;br&gt;<em>Towards Test-Driven Semantics Specification</em> (Scientific)&lt;br&gt;Leung, Mandl, Latronico, Shelton, Lee&lt;br&gt;<em>Scalable Semantic Annotation using Lattice-based Ontologies</em> (Scientific)&lt;br&gt;Walter, Silva Parreiras, Staab&lt;br&gt;<em>OntoDSL: An Ontology-Based Framework for Domain-Specific Languages</em> (Scientific)</td>
</tr>
<tr>
<td>11:00 – 12:30</td>
<td><strong>Domain-Specific Languages</strong> (4b)&lt;br&gt;Ileana Ober, Session Chair&lt;br&gt;Hermans, Pinzger, Deursen&lt;br&gt;<em>Domain-Specific Languages in Practice: A User Study on the Success Factors</em> (Empirical)&lt;br&gt;Dhauussy, Pillain, Creff, Raji, Le Traon, Baudry&lt;br&gt;<em>Evaluating Context Descriptions and Property Definition Patterns for Software Formal Validation</em> (Empirical)&lt;br&gt;Wienands, Golm&lt;br&gt;<em>Anatomy of a Visual Domain-Specific Language Project in an Industrial Context</em> (Empirical)</td>
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<tr>
<td>12:30 – 2:00</td>
<td><strong>Lunch</strong> (Grand Mesa A/B/C)</td>
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<tr>
<td>2:00 – 3:30</td>
<td><strong>Model (De-) Composition and Abstraction</strong> (5a)&lt;br&gt;Bernhard Rumpe, Session Chair&lt;br&gt;Klein, Kienzle, Morin, Jézéquel&lt;br&gt;<em>Aspect Model Unweaving</em> (Scientific)&lt;br&gt;Oldevik, Menarini, Krüger&lt;br&gt;<em>Model Composition Contracts</em> (Scientific)&lt;br&gt;Drusinsky, Shing&lt;br&gt;<em>Using UML Statecharts with Knowledge Logic Guards</em> (Scientific)</td>
</tr>
<tr>
<td>2:00 – 3:30</td>
<td><strong>Distributed Software Development</strong> (5b)&lt;br&gt;Bernhard Schätz, Session Chair&lt;br&gt;Daw, Vetter&lt;br&gt;<em>Deterministic UML Models for Interconnected Activities and State Machines</em> (Scientific)&lt;br&gt;Kraemer, Herrmann&lt;br&gt;<em>Automated Encapsulation of UML Activities for Incremental Development and Verification</em> (Scientific)</td>
</tr>
<tr>
<td>2:00 – 3:30</td>
<td><strong>Service and Business Process Integration</strong> (5c)&lt;br&gt;Gerti Kappel, Session Chair&lt;br&gt;Esfahani, Malek, P. Sousa, Gomaa, A. Menascé&lt;br&gt;<em>A Modeling Language for Activity-Oriented Composition of Service-Oriented Software Systems</em> (Scientific)&lt;br&gt;Fleurey, Solberg&lt;br&gt;<em>A Domain Specific Modeling Language supporting Specification, Simulation and Execution of Dynamic Adaptive Systems</em> (Scientific)&lt;br&gt;Drusinsky, Shing&lt;br&gt;<em>Using UML Statecharts with Knowledge Logic Guards</em> (Scientific)</td>
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<tr>
<td>4:00 – 5:00</td>
<td><strong>Panel: Real Programmers Don’t Model</strong>&lt;br&gt;Øystein Haugen, Session Chair (Grand Mesa)</td>
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# Conference Details – Friday, October 9

<table>
<thead>
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<th>Time</th>
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<tbody>
<tr>
<td>9:00 – 9:15</td>
<td>MODELS 2010 &amp; Announcements (Grand Mesa)</td>
</tr>
<tr>
<td>9:15 – 10:30</td>
<td><strong>Keynote: Grady Booch - Architectural Mining: The Other Side of the MDD</strong>&lt;br&gt;Gregor Engels, Session Chair (Grand Mesa)</td>
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<tr>
<td>10:30– 11:00</td>
<td>Coffee Break (Grand Mesa pre-function area)</td>
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## Wind River

### 11:00 – 12:30

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<thead>
<tr>
<th>Room: Wind River</th>
<th>Wind Star</th>
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</thead>
</table>
| **Genericity and Constraints** *(6a)*
Franck Fleurey, Session Chair<br>Moha, Mahé, Barais, Jézéquel<br>Generic Model Refactorings (Scientific)<br>Cuccuru, Radermacher, Gerard, Terrier<br>Constraining Type Parameters of UML 2 Templates with Substitutable Classifiers (Scientific)<br>Moiseev, Hayashi, Saeki<br>Generating Assertion Code from OCL: A Transformational Approach Based on Similarities of Implementation Languages (Scientific)<br>Chimiak-Opoka<br>OCLLib, OCLUnit, OCLDoc: Pragmatic Extensions for the Object Constraint Language (Scientific, 15 min presentation) | **Variability Management** *(6b)*
Geri Georg, Session Chair<br>Cengarle, Groenniger, Rumpe<br>Variability within Modeling Language Definitions (Scientific)<br>Schwanninger, Groher, Elsner, Lehofer<br>Variability Modelling Throughout the Product Line Lifecycle (Empirical, 15 min presentation)<br>Moine, Perrouin, Lahire, Barais, Vanwormhoudt, Jézéquel<br>Weaving Variability into Domain Metamodels (Scientific)<br>Narayanan, Levendovszky, Balasubramanian, Karsai<br>Automatic Domain Model Migration to Manage Metamodel Evolution (Scientific, 15 min presentation) |

## Wind Star

### 11:00 – 12:30

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| **Variability Management** *(6b)*
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Dániel Varró, Session Chair<br>Sun, White, Gray<br>Model Transformation by Demonstration (Scientific)<br>Wimmer, Kusel, Schoenboeck, Kappel, Retschitzegger, Schwinger<br>Reviving QVT Relations: Model-based Debugging using Colored Petri Nets (Scientific, 15 min presentation)<br>Kuester, Gschwind, Zimmermann<br>Incremental Development of Model Transformation Chains using Automated Testing (Scientific)<br>Giner, Pelechano<br>Test-driven Development of Model Transformations (Scientific, 15 min presentation) |
Hyatt Regency Hotel Tech Center, Hotel Maps

GROUND FLOOR

SECOND FLOOR

TO SWIMMING POOL
HEALTH CLUB
AND HOT TUB

FRONT DESK

ATRIUM LOBBY

GIFT SHOP

BUSINESS CENTER

THUNDER PASS

BRISTLECONE

BRISTLECONE

WIND RIVER

MESA VERDE

MAIN KITCHEN

WOMEN

MEN

ELEVATORS

BELL STAND

BELL STAND

SARAH'S PANTRY

THE HIGHLANDS

PHONES

GARRITY'S

KITCHEN

THE CAFE

PREFUNCTION AREA

SUMMIT ROOM

CHASM CREEK

SERVICE CORRIDOR

SERVICE CORRIDOR

GRAND MESA BALLROOM

A B C D E F
Modelling Solutions for Complex Systems (MODELPLEX)

A full Eclipse-based model-driven engineering solution for complex systems

Sébastien Praud (Thales), Technical Coordinator of the project

Software engineering is an area of crucial importance to the global economy. With business growing ever-more dependent on advanced technologies, the commercial sector demands a correspondingly wide range of attributes from its software tools. As such the development of new methods of software engineering capable of adapting to emerging demands is a real priority, and the MODELPLEX (Modelling Solutions for Complex Software Systems) project represents an important step towards this goal. The idea of the MODELPLEX project is that it should address issues like the size, complexity and heterogeneity of software by further developing model-driven engineering (MDE) tools and methodologies.

MODELPLEX defines and develops a coherent infrastructure specifically for the application of MDE to the development and subsequent management of complex systems within a variety of industrial domains, where “complexity” is characterized by a combination of size, heterogeneity, legacy system management, dynamicity, distribution and autonomy of systems.

A number of different isolated tools supporting MDE already exist but there is no integrated MDE platform for the whole lifecycle of the software development process. In MODELPLEX we are aiming to create just such an open platform so as to solve a number of different problems – such as interoperability, substitutability and traceability.

- A full Eclipse based solution
- A model-based verification and validation technology to address analysis and simulation of complex systems.
- Model repository allowing a fine grained navigation through stored information and providing additional features like versioning, access control and dependency management.
- Extend the system lifecycle target scope from design and building to system management (deployment, operation, and evolution), with model-based techniques.

During the MODELS’09 conference, the MODELPLEX team will present a demonstration of the Thales use case showing the multi-viewpoint modelling approach, illustrating the MODELPLEX Integrated Solution based on Eclipse. This demonstration shows a comprehensive MDE approach to tackle the inherent complexity of System-of-Systems (SoS), covering the entire development cycle from business through System and ICT architecture to executable code. They will also demonstrate the Fraunhofer FOKUS model repository, EVL (Epsilon Validation Language) from University of York as well as model weaving (Reuseware) from TU Dresden.

The presenters are as follows:
- Sébastien Praud (Thales), Technical coordinator of the project
- Kumardev Chatterjee (Thales), WP leader responsible for MODELPLEX Integrated Solution releases
- Dimitrios Kolovos (University of York), EVL
- Jendrik Johannes (Technical University Dresden), Reuseware
- Michael Wagner (Fraunhofer FOKUS), model repository

MODELPLEX is an FP6 project (Sept 2006- Feb 2010)- 20 partners
https://www.modelplex.org/
Email: info@modelplex.org
I. Bara Sushi & Grill
8000 E. Belleview Ave.
720.489.5509
Sushi/Japanese
Casual

O. Bourbon Street
5117 S. Yosemite St.
303.721.6150
Pizza Bar & Grill
Casual

G. Chipotle
8000 E. Belleview Ave.
303.694.3094
Fast Food – Mexican
Casual

I. Cool River Café
8000 E. Belleview Ave.
303.771.4117
Steak/Southwest
Business Casual

B. Darcy’s
4955 S. Ulster St.
303.770.0477
Irish Bistro & Pub
Casual

N. Einstein Bros. Bagels
4920 S. Yosemite St.
303.721.6655
Bagels
Casual

H. Il Fornaio
8000 E. Belleview Ave.
303.221.8400
Italian
Business Casual

C. Garcia’s
5050 S. Syracuse St.
303.779.4177
Mexican
Casual

J. Great Northern Tavern
8101 E. Belleview Ave
303.770.4741
Steak/American
Business Casual

M. Jackson’s All American Sports Bar
4948 S. Yosemite St.
303.220.0222
American
Casual

P. Jimmy John’s
4682 S. Yosemite St.
303.741.4100
Subs
Casual

A. McCormick & Schmick’s
8100 E. Union Ave.
720.200.9339
Seafood
Business Casual

E. McDonald’s
5090 S. Quebec St.
303.694.0255
Fast Food – American
Casual

L. Morton’s of Chicago
8480 E. Belleview Ave.
303.409.1177
Steak
Business Casual
G. Original Pancake House
8000 E. Belleview Ave.
303.224.0093
Breakfast
Casual

B. Panera Bread
4950 S. Ulster St.
303.741.3770
Deli
Casual

B. Peppino’s Pizzeria
4955 S. Ulster St.
720.489.7165
New York Pizza
Casual

I. Purple Martini
8000 E. Belleview Ave.
303.779.0091
Martini Bar/Club
Business Casual

B. Qdoba
4955 S. Ulster St.
303.221.3366
Fast Food - Mexican

P. Renzio’s
8933 E. Union Ave.
303.267.0300
Greek
Casual

J. Santoro’s Pizza
8101 E. Belleview Ave.
303.770.7428
Pizza
Casual

F. Starbucks
8000 E. Belleview Ave.
303.221.6236
Coffee
Casual

N. Tokyo Joe’s
4950 Yosemite St.
303.804.0988
Fast Food – Japanese
Casual

N. Wahoo’s Fish Taco
4930 S. Yosemite St.
720.974.7470
Fast Food – Mexican
Casual

D. Wendy’s
5070 S. Syracuse St.
303.850.9752
Fast Food – American
Casual

K. Yia Yia’s
8310 E. Belleview Ave.
303.741.1110
European
Business Casual

E. Taco Bell
5050 S. Quebec st.
303.796.8538
Fast Food – Mexican
Casual
Area Maps and Attractions: Denver Light Rail Map
Area Maps and Attractions: Directions to Light Rail Station nearest MODELS 2009 Conference Hotel

Directions:

Leaving the Hyatt Regency Hotel property, exit from our back entrance onto S. Syracuse and make a left turn (south). The first traffic light is E. Union, turn right (west). Continue west on the bridge over I-25. On the west side of the bridge there is a white elevator. Take this down to the ground level. From the elevator walk south until you are at the Belleview Light Rail Station. Approximate 10 minute walk.

For your safety, please remember that you are in a large city. We recommend that you follow the suggestions below:
1. It is not recommended to walk alone or at night.
2. Always carry identification with you.
3. Please be careful around intersections and roadways.
4. You are walking at your own risk. Just as you must be careful in a familiar area you should be more careful in an unfamiliar area. Be aware of your surroundings at all times and keep alert. The Hyatt Regency hotel does not accept responsibility for any guest who chooses to walk to any of the surrounding areas.
Area Maps and Attractions: Downtown Denver Restaurants and Entertainment

**Denver Dining - walking distance from the CCC**

Denver has a very accessible and walkable downtown. The 16th Street Mall is a mile and a half long pedestrian street that runs through the center of the city. The Mall is lined with trees, planters, cafes and restaurants, shops, fountains, plazas and parks. A fleet of over thirty free shuttles carry shoppers, visitors, and the downtown workforce along the length of the Mall, stopping on every corner in each direction. The shuttles operate seven days a week, free of charge. Monday through Saturday, the shuttle operates from 6:00am until 1:00am, and Sunday, from 7:00am until 1:00am. During peak times, the shuttles arrive at a rate of every 30-90 seconds. All shuttles are wheelchair accessible. The free Mall shuttle brings all downtown hotels, businesses, and restaurants within easy walking distance.

1. The Brown Palace Hotel
2. The Burnsley Hotel
3. Comfort Inn Downtown
4. Courtyard by Marriott
5. Crowne Plaza
6. The Curtis Hotel
7. Grand Hyatt Denver
8. Hampton Inn & Suites
9. Hilton Garden Inn
10. Hotel VQ at Mile High
11. Hyatt Regency Denver at CCC
12. Magnolia Hotel
13. Marriott City Center
14. Hotel Monaco
15. The Oxford Hotel
16. Ramada Inn Downtown
17. Residence Inn Denver City Center
18. Sheraton Hotel Denver
19. Teatro Historic Hotel
20. Warwick Hotel-Denver
21. The Westin Hotel Tabor Center

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Conference Banquet
MODELS 2009 Organization

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MODELS 2010 will be in Oslo, Norway

The conference site, Oslo Congress Centre, is in the very heart of Oslo, with hotels in walking distance. The social program will include:
- reception at the City Hall at the harbor front,
- visit to the original Viking Ships
- banquet at Gamle Logen, in the old town of Oslo.

The Oslo Airport Gardermoen is a train ride of 20 min from Oslo.

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<tbody>
<tr>
<td></td>
<td>September</td>
<td>15.0°C (59.0°F)</td>
<td>7.5°C (45.5°F)</td>
<td>9.0 cm (3.5 in)</td>
</tr>
<tr>
<td></td>
<td>October</td>
<td>9.3°C (48.7°F)</td>
<td>3.8°C (38.8°F)</td>
<td>8.4 cm (3.3 in)</td>
</tr>
</tbody>
</table>

Early October in Oslo is a time of cool, crisp weather that is generally sunny and clear. Oslo is located in the center of Scandinavia, and is bounded by the fjord and forested hills, providing stunning scenery. The woods around Oslo are easily accessible by metro, and the city itself offers many outdoor cafes and pedestrian areas near the city center and along the waterfront. Most sites and museums are accessible via short walks or metro rides. See [www.visitoslo.com/en](http://www.visitoslo.com/en/)

Extend your stay and enjoy the fjords of Norway.
Fjords of Norway [www.fjords.com](http://www.fjords.com)
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Pictures, from the top: Oslo Opera House (visitOslo, Andrew Parker), Viking ship (visitOslo, Matias Intihar), Naeroyfiorden (fiords.com, Øvind Heen)
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