

SEMANTIC DAYS

Conference Programme

May 31st – June 2nd

2010

Stavanger, Norway

Free tutorials May 31st

Main programme June 1st and 2nd

Semantic Days is an annual conference that has become a meeting place for industrial and public sector use of Semantic Web technologies with significant contribution from research institutions and universities.

Semantic Days 2010 focuses on development, use and benefits of Semantic Web technologies in:

Oil & Gas Industry

Public Sector

Health Care

Universities and Research Institutions

IT Industry

Defence and Defence Industry

Registration at www.semanticdays.org



Why semantic technologies?

Semantic technologies emerge from efforts to transform the current «Web of documents» to a «Web of linked data», available to people and to computers alike. The semantic technologies comprise a set of standardized formats and languages used to express data on the Web, allowing consumers and businesses to more easily find and analyze all kinds of useful online information. As a consequence, data can be processed independently from the application that created them. The basic technologies are:

- **Common languages for representing and linking structured and unstructured data**
- **Ontologies – concepts, relations and definitions – that provide common terminologies to interpret data from disparate sources**
- **Rules that allow software to retrieve and reason about information on the basis of the ontologies**

May 31st Monday 12:15–18:00 Tutorials

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| Semantic Web programming | <p>The tutorial is based on material from a new course given at the University of Oslo in the spring term 2010. Learn how to publish and retrieve knowledge using W3C Semantic Web standards. Don't forget to bring your laptop!</p> <p>PRESENTER: MARTIN GIESE, DEPARTMENT OF INFORMATICS, UNIVERSITY OF OSLO</p> |
| Practical use of ISO 15926 and demonstration of solutions based on the standard | <p>12.15-14.00 Practical ISO 15926, interoperability with RDF/OWL The author/editor of Part 7, 8, 9 and 10 of ISO 15926 speaks about implementation of the standard, how EPC contractors are involved and data handover in the supply chain. PRESENTER: ONNO PAAP, DATA INTEGRATION MANAGER, FLUOR</p> <p>14.15-15.30 Interoperable OpenPlant and ProjectWise Lifecycle solutions using ISO 15926 This session will provide an insight into how Bentley Systems Inc. has been implementing the latest ISO 15926 protocols in OpenPlant suite of products and ProjectWise Lifecycle solutions and a brief demo. PRESENTER: MANOJ DHARWADKAR, DIRECTOR OF DATA INTEROPERABILITY, BENTLEY SYSTEMS</p> <p>15.30-17.00 iRINGTools – ISO 15926 and Semantic Web In this presentation we will discuss Bechtel's role in the development and usage of iRINGTools. iRINGTools is a set of free, public domain, and open source software applications and utilities that implement ISO 15926 and Semantic Web protocols labelled as «iRING». PRESENTER: ROBIN BENJAMINS, ENGINEERING AUTOMATION MANAGER, BECHTEL</p> <p>17.15-18.00 ISO15926 with ESB technology An example of an information services bus, as applied in the IOHN project. Part I describes semantic approach to integration and accompanying modeling work. Part II describes the Integration Bus technologies and standards – going forward. PRESENTER: UDO PLETAT, INDUSTRY ARCHITECT, IBM</p> |
| Service Modelling with SoaML | <p>SoaML (Service oriented Architecture Modeling Language) SoaML is a new OMG standard for Service Modeling adopted in December 2009, with both a UML profile and a metamodel for modelling of services. This tutorial introduces the concepts and practical use of SoaML with corresponding tool and methodology support. PART I provides an introduction to SoaML for Service Modeling and Service oriented architectures and PART II shows how SoaML can be used and extended in a wider context including a link to business modeling and support for semantic web services. PRESENTERS: ARNE JØRGEN BERRE AND DUMITRU ROMAN, SINTEF</p> |
| SERES | <p>A SERES tutorial (For public sector, in Norwegian) The tutorial will introduce interoperability issues in public sector including how to handle organizational, juridical and semantic challenges in inter-governmental services. The tutorial will cover an introduction to SERES and its relation to Altinn, modeling your domain with SERES tools, both at a conceptual level, structural level and implementation details, and give an overview on the dual role of metadata in reporting and SERES role in publishing Open public data. PRESENTERS: GEIR JEVNE, DNV/SERES, TERJE GRIMSTAD, KARDE/SEMICOLON AND DAVID NORHEIM, COMPUTAS/SERES</p> |

What will you learn?

- Introduction to basic semantic technologies
- Why and how industries and research institutions are developing ontologies
- What practical applications ontologies can be used for
- The benefits of semantic technologies for standardized information access
- Availability of IT solutions for integrated work processes

Who should attend?

- Everyone is challenged by information overflow
- Everyone is challenged by interoperability issues arising from the absence of a shared understanding
- Everyone wondering how semantic information can support integrated work processes
- Everyone wondering how to achieve interoperability between data sources
- Everyone wondering how to create an architecture for sharing information
- Everyone interested in semantic technologies and the future of the Web

June 1st Tuesday

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|--------------------|---|
| 09:00-12:00 | Keynotes |
| 09:00-09:10 | Welcome. PROFESSOR ARILD WAALER, CHAIRMAN OF THE PROGRAMME COMMITTEE |
| 09:10-09:40 | The EU Semantic Technologies ecosystem: funding and strategies. STEFANO BERTOLO, EC |
| 09:40-10:10 | Enabling secure access to patient health information between European healthcare systems ANA ESTELRICH, MANAGER, NATIONAL FRENCH HEALTH CARE RECORD |
| 10:10-10:40 | Semantic Technology: A Challenge or Opportunity for Building Enterprise Systems DAVID PEARSON, VICE PRESIDENT ARCHITECTURE, ORACLE CORPORATION |
| 10:40-11:00 | Coffee break |
| 11:00-11:30 | The challenge of semantic integration and the role of ontologies NICOLA GUARINO, ISTC-CNR LABORATORY FOR APPLIED ONTOLOGY |
| 11:30-12:00 | The search for the perfect balance. PROFESSOR MORTEN DÆHLEN, UNIVERSITY OF OSLO |
| 12.00-13.00 | Lunch |
| 13:00-16:00 | Theme: Challenge of Information overflow |
| 13:00-13:30 | Keynote: Upstream Ontologies: Will We Ever Learn? BERTRAND DU CASTEL, SCHLUMBERGER |
| 13:30-14:00 | Introduction to the information overflow challenge as it appears in a Statoil asset. LARS OLAV GRØVIK, STATOIL |
| 14:00-14:30 | The use of structured and unstructured information for operational project planning and scheduling JAYANT R. KALAGNANAM, IBM, WATSON RESEARCH LAB |
| 14:30-15:00 | Coffee break |
| 15:00-15:30 | From patients to information and back - how semantic technologies support this round trip STEFFEN LAMPARTER, SIEMENS |
| 15:30-16:00 | Status of semantic technologies. RALF MØLLER, HAMBURG UNIVERSITY OF TECHNOLOGY |
| 16:00-17:00 | Panel discussion – IBM, Schlumberger, Baker Hughes, Oracle |
| 17:00-18:00 | Various tool vendors with short presentations |

Sightseeing and conference dinner at Flor and Fjære (<http://www.florogfjare.no/>)

June 2nd Wednesday

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| 09:00-12:00 | Theme: Challenges with open data and interoperability |
| 09:00-09:30 | Keynote: Challenges with open public data. GEORG APENES, FORMER DIRECTOR OF THE DATA INSPECTORATE |
| 09:30-10:00 | Panel Discussion. Participants from major public institutions present |
| 10:00-10:30 | A strategy for metadata for the Norwegian public sector. ENDRE GRØTNES, DIFI |
| 10:30-11:00 | Coffee Break |
| 11:00-11:30 | Challenges of data integration across disciplines for Digital Oilfield of the Future. INGE SVENSSON, BAKER HUGHES |
| 11:30-12:00 | OWL implementation of ISO 15926 Geometry Reference Data using Template Methodology MANOJ DHARWADKAR, PH.D., BENTLEY SYSTEMS |
| 12.00-13.00 | Lunch |
| 13:00-16:00 | Projects Parallel Session |
| Oil & Gas | Integrated Operations in the High North (IOHN). ORGANIZED BY FRÉDÉRIC VERHELST, PROJECT MANAGER OF IOHN |
| eGov | Public Sector Interoperability. ORGANIZED BY BRØNNØYSUNDREGISTERNE, SEMICOLON AND DIFI |
| Research | A technology session on semantic technologies. ORGANIZED BY DUMITRU ROMAN, SINTEF |

Registration and contact

More information on <http://www.semanticdays.org>

REGISTRATION FOR THE CONFERENCE

<http://www.conventor.no/semanticdays>

Hotel can be booked together with the registration

QUERIES CAN BE MADE TO:

Nina Lein Nybråten, PCA

Mobile: +47-9225 0030

Email: nina.lein@posccaesar.com

Registration Information

(all prices in NOK)

DELEGATE FEE

| Title: | Price: | + VAT: |
|--------------------------------|----------|---------|
| Standard | 10 000,- | 2 500,- |
| Standard – Registered by May 7 | 8 000,- | 2 000,- |
| Member* | 7 000,- | 1 750,- |
| Member* – Registered by May 7 | 5 000,- | 1 250,- |
| Student | 2 000,- | 500,- |
| Student – Registered by May 7 | 1 000,- | 250,- |
| Tutorials only – Std & Mbr | 2 000,- | 500,- |
| Tutorials only – Student | 500,- | 125,- |

*) A member is an employee of The Brønnøysund Register Centre, Norwegian Army Forces; or an employee of a member company in EPIM, OLF, PCA; or a member of Tekna.

| Tuesday 1 June | Price: | + VAT |
|---|---------|-------|
| – Sightseeing and conference dinner at Flor & Fjære | 1 000,- | 250,- |

ACCOMMODATION

| Hotel: | Single Room: | Double Room: |
|--|--------------|--------------|
| Radisson Blu Atlantic Hotel (conference hotel) | 1 795,- | 1 995,- |
| Skagen Brygge Hotel | 1 495,- | 1 680,- |

Hotel prices are per night and include VAT and breakfast.

Hotel accommodation is to be paid directly to the hotel upon departure.

Organisers

The organisers of Semantic Days are:

E&P Information Management (EPIM)

POSC Caesar Association (PCA)

Tekna

The Brønnøysund Register Centre

The Norwegian Armed Forces

The Norwegian Oil Industry Association (OLF).

The organisers have established a Board that appoints chairman and provides guidelines for the programme committee. PCA is accountable for economy and the secretarial functions.

The Semantic Days 2010 committees

BOARD

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