Conference program

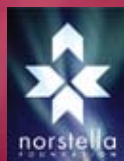# Semantiske dager 2006
Norwegian Semantic Days 2006

Semantic web

- a quantum leap in information sharing and web-based cooperation

- **International experts present technology, solutions and market outlook**

- **is happpening in Norway in:**

     Oil and energy
     Public administration

Analysts believe:

- **10-100 times more effective solutions for knowledge-intensive processes**

- **A global market worth NOK 400bn per year from 2010**

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norstella

olf

POSC Caesar Association

Welcome to Semantic Days 2006

Semantic web

This is the first time the semantic web is presented in depth in Norway. The aim of the Semantic Days 2006 is to visualise the options semantic technology provides for establishing the Norwegian knowledge-based industry. Based on our traditional industries, Norwegian knowledge-based businesses are well-positioned to win stakes in the fast-growing international market. The public sector will employ semantics-based systems in order to offer better services and streamline public administration.

The original idea of Tim Berners-Lee, who introduced the World Wide Web in 1989, was to create a new global information medium where individuals and organisations could share knowledge and cooperate. Until today, the World Wide Web (or the web) has primarily been used to publish information. With more than one billion users and a rapidly increasing number of documents, the web has become the most important global information resource.

Following an era of large-scale establishment of intranets internally in organisations and extranets between organisations, many are now returning to the original idea of WWW as a medium for interaction and sharing knowledge. This requires new technology and standards to describe and handle the meaning of the information, in other words: the semantic content. The new web technology, the semantic web, is now ready for practical use.
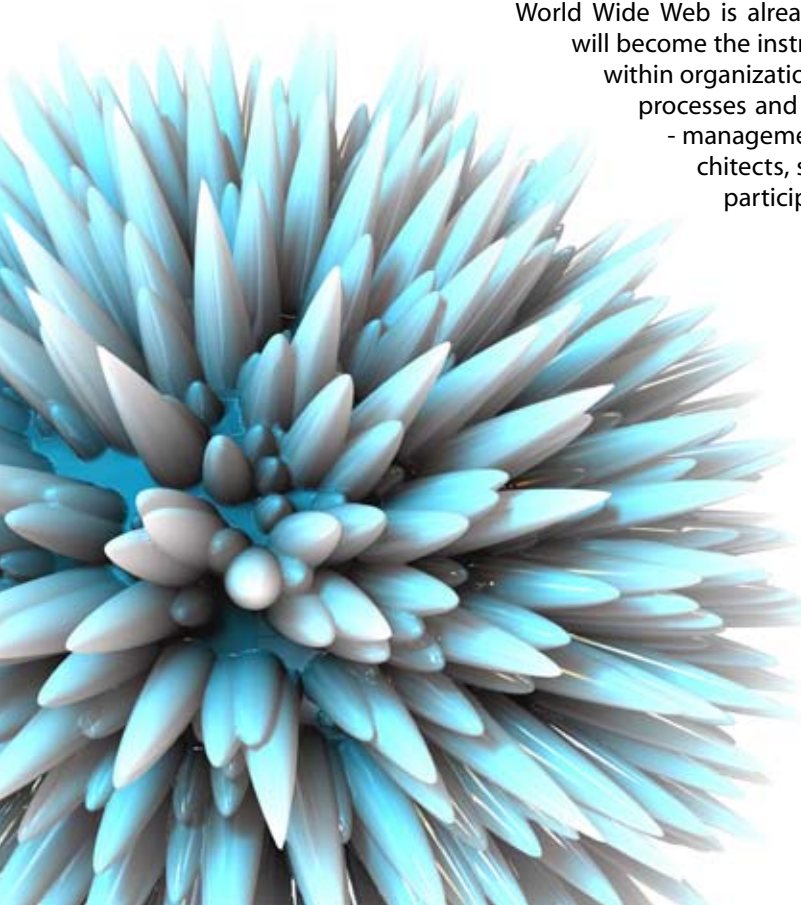
The conference presents strategies and applications for the semantic web and other semantic technology in leading milieus in and outside Norway. The first day of the conference will focus on technology and market potential: What is the status, what solutions exist, what are the prospects and challenges? The second day is divided into two sessions focusing on milieus and activities in the oil and energy industry and the public sector in Norway, respectively.
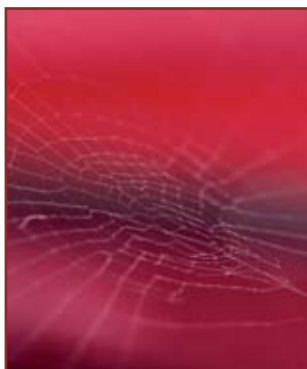
Who should participate?

World Wide Web is already the digital information highway. The Semantic web will become the instrument for handling information - globally, between and within organizations and on the individual level. Everyone who works with processes and new solutions for information handling and interaction - management and administration, scientific experts, information architects, software developers and users - will benefit greatly from participating in this conference.

Program committee

- Tore Christiansen, Principal Engineer, DNV (chairman)
- Roar Fjellheim, Director, Computas (deputy chairman)
- Arild Haraldsen, Managing Director, NorStella
- Thore Langeland, Scientific Director integrated operations, OLF
- Åsmund Mæhle, Chairman KM Forum, the Norwegian Computer Association Society
- Nils Sandsmark, General Manager, POSC Caesar association
- Gro-Anett Sundstrøm Olsen, Project Manager, Abelia

Semantic web

Session Chairman: Tore Christiansen, Senior Principal Engineer, DNV

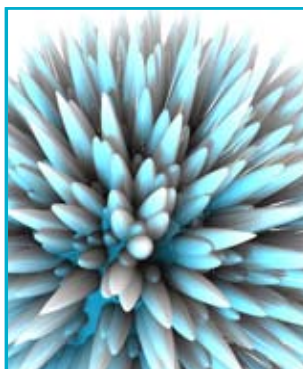|	
08:30 09:30	Registration and coffee
09:30 09:45	Welcome to the Norwegian Semantic Days Leif Johan Sevland, Mayor of Stavanger
09:45 10:15	The main challenge for the Norwegian oil industry - successful investment in knowledge and technology Paul Chaffey, General Manager, Abelia
10:15 11:00	Overview of strategy and development at the W3C Eric Miller, Semantic Web Activity Lead, World Wide Web Consortium
11:00 11:30	**Coffee break**
11:30 12:00	On research and applications of semantic web technology in the US Deborah McGuinness, co-director and senior research scientist at the Knowledge Systems Artificial Intelligence Laboratory, Stanford University
12:00 12:30	On the semantic web of things David Brock and Ed Schuster, Directors, MIT Data Center, USA
12:30 13:30	**Lunch**
13:30 14:00	Progress on the Semantic Web Nigel Shadbolt, Professor, University of Southampton, UK
14:00 14:30	On semantic web research in Norway Jon Atle Gulla, Professor, NTNU/IDI
14:30 15:00	**Coffee break**
15:00 15:30	Semantic web applications in the public sector in Finland - building the basis for a national semantic web infrastructure Eero Hyvönen, Professor, University of Helsinki
15:30 16:15	On the industrial and economic impact of the semantic web Mills Davis, Managing Director, Project 10X, USA
16:15 16:30	What we did today and what we will do tomorrow Remarks, Roar Fjellheim, Director, Computas
16:30 16:45	Introduction to semantic technology in the public sector Håkon Olderbakk, Department Director, Brønnøysundregistrene
16:45 17:00	Introduction to semantic technology in the oil and energy sector Thore Langeland, Manager Integrated Operations, OLF
18:30 19:30	Cocktails
19:30	Dinner

Session chairman: Arild Haraldsen, managing director, NorStella

08:30 08:45	Welcome to semantics in the public sector
08:45 09:30	Public administration strategy for IT architecture and semantic interoperability Special Advisor Henrik Linnestad, The Ministry of Government Administration and Reform
09:30 10:00	Research strategies and results from the EU research program on semantic interoperability in the public sector (eBusiness and eGovernment) Arne Jørgen Berre, Chief Scientist, SINTEF ICT
10:00 10:30	Semantic models in the Norwegian public sector Håkon Olderbakk, Department Director, the Brønnøysund Register Centre
10:30 11:00	**Coffee break**
11:00 11:30	Australias framwork for public sector interoperability – GovDEX Øyvind Aassve, Senior Advisor, NorStella
11:30 12:00	Denmarks initative in semantic interoperability Adam Arndt, IT architect, Danish National IT and Telecom Agency
12:00 13:00	**Lunch**
13:00 13:30	From 'my page' to 'my process': Semantic web for adapted services John Krogstie, Professor, NTNU/IDI
13:30 14:00	Semantic integration in Norwegian construction industry and interaction with public sector Lars C. Christensen, Director of technology monitoring and expertise, Selvaag Gruppen
14:00 14:30	Semantisk interoperability in schools Åsmund Mæhle, Project Manager, Bouvet; and Are Mjølsnes, Advisor, the Norwegian Directorate for Education and Training
14:30 15:00	**Coffee break**
15:00 15:30	Status and prospects for semantic technology in the US government Mills Davis, Managing Director, Project 10X, USA
15:30 15:45	How will this affect our future options? Summary of the day, Åsmund Mæhle, Chairman KM Forum, Norwegian Computer Society

Session Chairman: Thore Langeland, Manager Integrated Operations, OLF

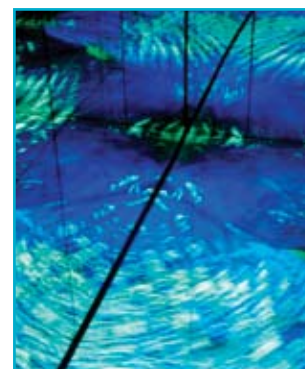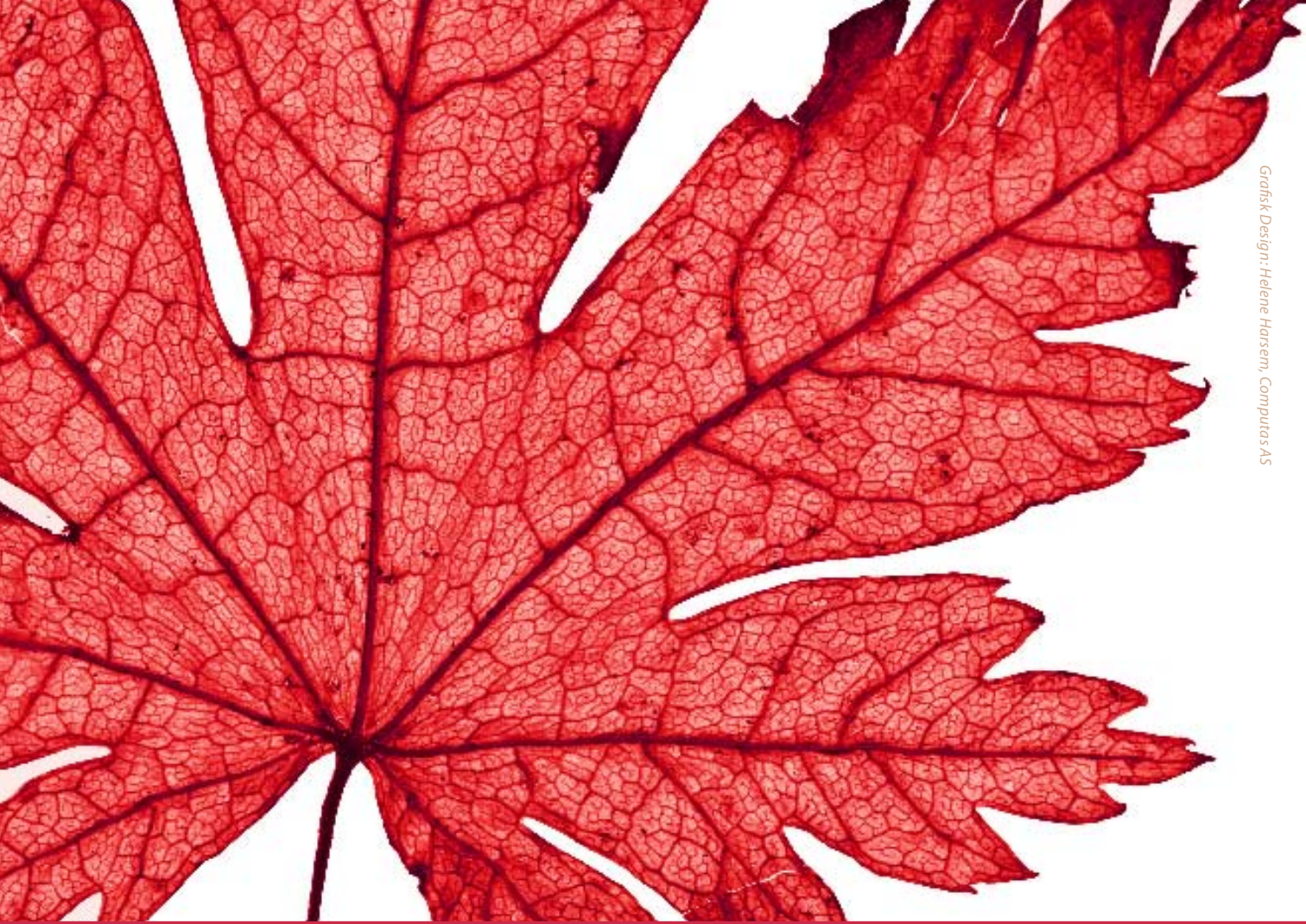|	
08:30 08:45	Welcome to the semantic oil and energy track Ivar Langen, Rector, University of Stavanger
08:45 09:30	ISO 15926, semantic web and oil and gas ontology Nils Sandsmark, General Manager, POSC Caesar
09:30 10:00	Semantic integration projects in upstream and downstream applications at IFP Bertrand Braunschweig, Director, Institut Francais du Pétrole, France
10:00 10:30	Ontologies and Search Jon Atle Gulla, Professor, NTNU/IDI
10:30 11:00	**Coffee break**
11:00 11:30	Active Knowledge System for Integrated Operations (Aksio) Roar Fjellheim, Director, Computas
11:30 12:00	The need to address semantics in Service-Oriented Architecture (SOA) as we take back control of process and content Ole Schjødt-Osmo, Vice President IT Strategy and Architecture, Statkraft
12:00 13:00	**Lunch**
13:00 13:30	Intelligent Data Sheets (IDS) Magne Valen-Sendstad, Department Manager, DNV
13:30 14:00	Integrated Information Platform (IIP) Svein Omdal, Project Manager, Statoil
14:00 14:30	What do Hydro, NRK and Deutsche Telekom have in common? Bernt Bremdal, General Manager, CognIT and Robert Engels, Director Content and Management Systems, CognIT
14:30 15:00	**Coffee break**
15:00 15:30	Daily Production Report - a solution for the Norwegian Continental Shelf Bjørn Rugland, Advisor Production Management, Statoil, and Jan Ingvar Riveland, Senior Consultant, TietoEnator
15:30 15:45	What we did today and what it means for the future Closing remarks, Kaare J. Finbak, Senior Principal Engineer, OLF/DNV

Register for the conference through
www.olf.no

Hotel bookings can be made while registering.

Questions regarding Semantic Days 2006 can be sent to program committee chairman Tore Christiansen (tore.r.christiansen@dnv.com) or deputy chairman Roar Fjellheim (raf@computas.no).

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Radisson SAS Atlantic Hotel
Olav V's gt. 3
P.O. Box 307
4002 Stavanger
Norway
Tel: +47 51 76 10 00

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