OWL Experiences and Directions 2008 v2.0

Welcome to OWL ED

- A forum for industry, academia, tool developers, and others interested in OWL

- To share experience and discuss applications and requirements for language extensions/modifications.

- Final session – vote for steering committee and discuss future of OWL

Agenda – Sunday 26th

9:00 *Welcome and Opening remarks*
9:15 Session 1*: Reasoners*
10:30 Break with Posters
11:00 Session 2: *Quantities and Infrastructure*
12:30 Lunch with Posters
13:30 Session 3: *User Experience*
15:00 Break with Posters
15:30 Session 4: *Breakouts and task forces*
17:00 End of day 1
19:00 Social dinner

Agenda - Monday 27th

9:00 Session 5: *User Experience in Biohealth*

10:30 Break with Posters

11:00 Session 6: *OWL Tools*

12:30 Lunch with Posters/Demos

13:30 Session 7: *OWL Extensions*

15:00 Break with Posters

15:30 Session 8: *Panel: How might OWL fail?*

17:00 Wrap up – vote for steering committee future discussions.

17:30 Close

The sessions

- 15 minutes for a long paper – including questions

- 1 slide for a poster advert

- Discussions!

Session 1: Reasoners

9:15 – 10:30 – Ian Horrocks

- Conjunctive Query Answering in EL using a Database. *Carsten Lutz, David Toman and Frank Wolter*

- **Enhancing Web Portals with Ontology-Based Data Access: The Case Study of South Africa's Accessibility Portal for People with Disabilities**. *C. Maria Keet, Ronell Alberts, Aurona Gerber and Gibson Chimamiwa.*

- **Easy Keys for OWL**. *Bijan Parsia, Ulrike Sattler, and Thomas Schneider* [moved from session 6]

- **HermiT: A Highly-Efficient OWL Reasoner**. *Rob Shearer, Boris Motik and Ian Horrocks.*

- **When DL-Lite met OWL....** *Claudio Corona, Emma Di Pasquale, Antonella Poggi, Marco Ruzzi and Domenico Fabio Savo.*

- **Towards an Open Framework for Ontology Based Data Access with Protégé and DIG 1.1**. *Mariano Rodriguez and Diego Calvanese.*

Session 2: Quantities and Infrastructure

11:00 – 12:30 : session chair Carsten Lutz

- **Quantities in OWL**. *Bijan Parsia and Michael Smith*

- **OWLlink: DIG for OWL 2**. *Thorsten Liebig, Marko Luther, Olaf Noppens, Mariano Rodriguez, Diego Calvanese, Michael Wessel, Matthew Horridge, Sean Bechhofer, Dmitry Tsarkov and Evren Sirin.*

- **InfixOWL: An Idiomatic Interface for OWL**. *Chimezie Ogbuji.*

Short papers / posters:

- **The SWRLAPI: A Development Environment for Working with SWRL Rules**. *Martin O'Connor, Ravi Shankar, Mark Musen, Amar Das and Csongor I Nyulas.*

- **Augmenting the Expressivity of the Ontology Pre-Processor Language**. *Luigi Iannone, Mikel Egaña, Alan Rector and Robert Stevens.*

- **Calculations in OWL**. *Luigi Iannone and Alan Rector.*

- **Annotated Literals for Standard Units of Measurement: A proposal**. *Ryan Blace and Andrew Perez-Lopez.*

Lunch

- 12:30 – 13:30
- Posters

Session 3: User Experience

13:30 – 15:00 Session chair: Cathy Dolbear

- **Judging Amy: Automated Legal Assessment using OWL 2**. *Saskia van de Ven, Rinke Hoekstra, Joost Breuker, Lars Wortel and Abdallah El-Ali.*

- **Probabilistic Modeling and OWL: A User Oriented Introduction to P-SHIQ(D)**. *Pavel Klinov and Bijan Parsia.*

- **Managing Change: An Ontology Version Control System**. *Timothy Redmond, Michael Smith, Nick Drummond and Tania Tudorache* [rescheduled from session 6]

Short papers:

- **RBAC Authorization Decision with DL Reasoning.** *Martin Knechtel, Jan Hladik and Frithjof Dau.*

- **A Family History Knowledge Base Using OWL 2**. *Robert Stevens and Margaret Stevens.*

- **Representing Product Designs Using a Description Graph Extension to OWL 2**. *Henson Graves*

- **Pellint - A Performance Lint Tool for Pellet**. *Harris Lin and Evren Sirin.*

- **OWL Support for (Some) Non-Deductive Scenarios of Ontology Usage**. *Vojtech Svatek, Miroslav Vacura, Martin Ralbovsky, Ondrej Svab-Zamazal and Bijan Parsia.*

Session 4: Breakouts and Task Forces

15:30 – 17:00

Task forces that may be interested in breakouts:

- Safe Rules
- Imports Management
- DatabasEsque features
- Uncertain Owl
- Education
- Macros And Syntax
- User Requirements

Other suggestions ?

- Concrete datatypes

Session 5: User Experience in Biohealth

9:00 – 10:30 : session chair: Alan Ruttenberg

- **The OWL of Biomedical Investigations.** *Melanie Courtot, William Bug, Frank Gibson, Allyson L. Lister, James Malone, Daniel Schober, Ryan Brinkman and Alan Ruttenberg.*

- **What Causes Pneumonia? The Case for a Standard Semantics for "may" in OWL**. *Alan Rector, Robert Stevens and Nick Drummond.*

- **Biological Situational Modeling: Defining Molecular Roles in Pathways and Reactions**. *Michel Dumontier*

Short papers:

- **GO faster ChEBI with Reasonable Biochemistry**. *Duncan Hull*

- **Use of OWL 2 to Represent a Biomedical Knowledge Base Extracted from the GENIA Corpus**. *Rafal Rak, Lukasz Kurgan and Marek Reformat.*

- **Barriers to the use of OWL in Knowledge Driven Applications**. *Alan Rector and Robert Stevens.*

Session 6: OWL Tools

11:00 – 12:30 : session chair Robert Stevens

- Literate, Active OWL Ontologies. *Bijan Parsia.*

- ACE View --- an Ontology and Rule Editor based on Attempto Controlled English. *Kaarel Kaljurand*

- Understanding Entailments in OWL. *Matthew Horridge, Johannes Bauer, Bijan Parsia, and Ulrike Sattler*

- Opening, Closing Worlds - On Integrity Constraints. *Evren Sirin, Michael Smith and Evan Wallace.* [rescheduled from session 3]

Short papers:

- Web-Protege: A Lightweight OWL Ontology Editor for the Web. *Tania Tudorache, Jennifer Vendetti and Natasha Noy.*

- Qualifying Triples and Selective Reasoning. *Stuart Hendren and John Yesberg.*

Session 7: OWL Extensions

13:30 – 15:00 session chair Tania Tudorache

- **The OWL in the CASL - Designing Ontologies Across Logics**. *Oliver Kutz, Dominik Luecke, Till Mossakowski and Immanuel Normann.*

- **Owlgres: A Scalable OWL Reasoner**. *Markus Stocker and Michael Smith.* [moved from session 1]

- **Modelling ontologies using OWL, Description Graphs and Rules.** *Boris Motik, Bernardo Cuenca Grau, Ian Horrocks, and Ulrike Sattler*

Short papers:

- **SKOS and OWL: Don't be Full-ish!** *Simon Jupp, Sean Bechhofer and Robert Stevens.*

- **Characterizing and Detecting Integrity Issues in OWL Instance Data**. *Jiao Tao, Li Ding, Jie Bao and Deborah McGuinness.*

- **A Call for an Abducting-Reasoning Feature in OWL-Reasoning Tools toward Ontology Quality Control**. *Michael Bada, Chris Mungall, and Lawrence Hunter*

Session 8: How might OWL fail?

Moderator: Sean Bechhofer

Panelists: Michel Dumontier, Carsten Lutz, Tom Heath, Nick Drummond

- What single thing should the OWL community stop doing as it is a barrier to adoption?

- What single thing should the OWL community start doing in order to foster adoption?

- Playing the role of an evil mastermind, if you really wanted to derail OWL's progress and success, what would you do?

Steering Committee

- Elections for one new member
- Nominations to Ian Horrocks /Alan Ruttenberg

Thank you

General Chair
Alan Ruttenberg, Science Commons (US)
Local Organizers
Markus Krötzsch, University of Karlsruhe (Germany)   Holger Lewen, University of Karlsruhe (Germany)

Program Committee
Jos de Bruijn, Free University of Bozen-Bolzano   Jeremy Carroll, HP Labs
Anne Cregan, National ICT Australia (NICTA) Ltd   Mike Dean, BBN
Catherine Dolbear, Ordnance Survey   Michel Dumontier, Carleton University
Achille Fokoue, IBM   Peter Fox, High Altitude Observatory
Jenny Green, Ordnance Survey   Stuart Hendren, DSTL
Ivan Herman, W3C   Jan Hladik, SAP Research
Rinke Hoekstra, University of Amsterdam   Markus Kroetzsch, Karlsruhe University
Carsten Lutz, University of Technology, Dresden   Ralf Moeller, Hamburg University of Technology
Boris Motik, University of Oxford   Jeff Pan, University of Aberdeen
Antonella Poggi, Sapienza Universita' di Roma   Matthias Samwald, Semantic Web Company
Ulrike Sattler, University of Manchester   Thomas Schneider, University of Manchester
Michael Smith, Clark & Parsia LLC   Giorgos Stoilos, University of Athens
Evan Wallace, NIST   Zhe Wu, Oracle Corporation

Steering Committee
Bernardo Cuenca Grau, University of Manchester (UK) John Goodwin, Ordnance Survey (UK)
Pascal Hitzler, AIFB Karlsruhe (Germany) Ian Horrocks, Oxford University (UK)
Bijan Parsia, University of Manchester (UK) Peter Patel-Schneider, Bell Labs (USA)