

Semantic Chemistry with the Resource Description Framework

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First Call for Papers

Semantic Chemistry with the Resource Description Framework

240th ACS National Meeting & Exposition

Boston, Massachusetts, August 22-26, 2010

CINF Division

We now invite papers for our symposium on the use of the Resource Description Framework (RDF) technologies in semantic knowledge representation and data exchange in chemistry at the 240th National Meeting & Exposition of the American Chemical Society (ACS) in Boston this fall.

Semantic Chemistry has been around for a while, but is seeing a revival with the adoption of the Resource Description Framework (RDF) and matching technologies in chemistry. RDF triples provide a simple structure that allow data and knowledge alike to be presented in a single framework. Derived technologies include the capturing of ontologies with the Web Ontology Language (OWL) and performing queries with SPARQL. A wide variety of free and open source product make it easy to set up servers with large amounts of RDF data, while integration with HTML is available too with RDFa.

The RDF symposium at the 240th ACS national meeting in Boston invites submissions of talks about the use of RDF in chemistry and cheminformatics. Topics could include the use of OWL ontologies, OWL axioms, reasoning and interference, RDF in user interfaces, such as RDFa in web front ends, visualization, querying systems, and applications thereof, such as linking data sets, compound classification, cloud computing, web services, data aggregation, semantic publishing, and literature mining.

Abstracts may be submitted via <http://abstracts.acs.org>. You'll find the RDF session as part of the CINF division symposiums. Submissions open January 25, 2010, and the deadline is March 28, 2010. In case of questions, please email Egon Willighagen at egon.willighagen@farmbio.uu.se or Martin Braendle at braendle@chem.ethz.ch.