



Kno.e.sis Student Accomplishments – October 2009

[Meena Nagarajan](#), doctoral advisee of Prof. [Amit Sheth](#) in the Kno.e.sis Center gave a Keynote talk at the Social Data on the Web (SDOW) workshop, collocated with the 8th International Semantic Web Conference (ISWC). For a PhD student to give a keynote, which represents substantial mastery of a topic and is reserved for very senior researchers, and on a fast emerging topic at an event associated with the topmost conference in the area, indeed carries an unusual and extraordinary honor.

Meena's keynote covered her pioneering work on understanding user-generated content on Social Media, which she has conducted in collaboration with researchers at IBM, MSR and UC Berkeley, where she has interned in the past, and with her colleagues at Kno.e.sis. She covered problems along three dimensions of understanding user-generated informal content on social media - **what** (named entities, topics) are people talking about, **why** (intentions, sentiments expressed) are they talk and **how** (word usages) are they talking? Meena was also asked to chair a panel of experts at SDOW who were much more senior than her, also reflecting on her being recognized as an influential person in this new area of research.

While at ISWC, she also presented her research paper with IBM Research, Almaden on identifying music artist and track entities from user-generated content on MySpace music forums.

Meena has published 16 papers at some of the best conferences and journals in her areas and served on 7 program committees so far. She has interned at Hewlett Packard Labs, IBM Research, Microsoft Research and Univ. of California, Berkeley. Her work has also been the basis of two competitive industry grants from IBM and Microsoft.



Meena giving SDOW keynote



Meena Chairing SDOW Panel



Meena giving ISWC paper

[Cory Henson](#), third year doctoral student in the Kno.e.sis Center, coauthored a survey paper on the state-of-the-art in ontology modeling for sensor networks that was presented during the 2nd International Workshop on Semantic Sensor Networks (SSN09), co-located with ISWC 2009. In addition, he also presented during the first face-to-face meeting of the W3C Semantic Sensor Networks Incubator Group. Within this group he is spearheading the task of developing a framework for semantically annotating sensor data.

Cory helped to initiate and define a sub-field within the Semantic Web marrying semantic technologies with sensor networks. Since the start of 2009, this sub-field has been the topic of interest for four conference workshops (CTS, ESWC, and ISWC), a conference main track (ESWC), a W3C Incubator Group (SSN-XG), and a Dagstuhl seminar. In addition, as an undergraduate at the University of Georgia, he co-developed a standard for glycan representation called GLYDE (GLYcan Data Exchange) that has been adopted as a standard within the glycomics research community and by large databases such as SWEETDB.



[Ajith Ranabahu](#), third year doctoral student in the Kno.e.sis Center, presented a paper with Dr. Michael Maximilien, IBM Research collaborator, at the 24th OOPSLA conference in Orlando FL. OOPSLA is the most prestigious systems conference. He also presented two papers during an international workshop on a rapidly emerging topic—Cloud Computing design—collocated at the conference and demonstrated the IBM Altocumulus platform during the demo sessions.

During his 2009 internship at IBM Research Almaden, Ajith concentrated on the interoperability and homogenization of Cloud computing platforms using a middleware which resulted in development of IBM Altocumulus system for unified deployment and management of cloud computing applications. Altocumulus has been very successful both in terms of research breakthroughs and business value. The Altocumulus technology is being transferred to IBM's software groups.



Ajith was also selected for the highly visible position of the official ACM Blogger for OOPSLA. Among high profile blog posts on OOPSLA [\[1\]](#)[\[2\]](#)[\[3\]](#)[\[4\]](#) during the conference includes an interview with Turing Award winner Prof. Barbara Kiskov of MIT (see picture).



Satya introducing the workshop he co-chaired

[Satya Sahoo](#), doctoral student in the Kno.e.sis Center co-organized the first Semantic Web and Provenance Management (SWPM) workshop at the 8th International Semantic Web Conference (ISWC).

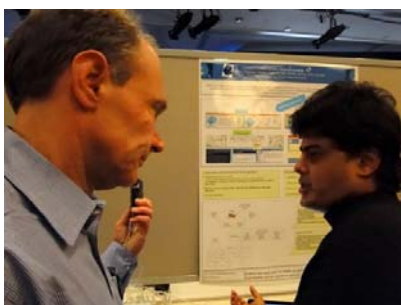
The workshop explored the role of Semantic Web in addressing some of the critical challenges facing the provenance research community, for example capturing and propagating provenance metadata as data is processed, fragmented and recombined across multiple applications and domains on the Web scale. Dr. Carole Goble, winner of the first Jim Gray eScience award, presented the keynote address titled “”. The workshop attracted several prominent computer science researchers including Susan Davidson (UPenn), Deborah McGuiness (RPI), Yolanda Gill (USC/ISI), and David DeRoore (USouthampton) among others. The proceeding and talks from the workshop can be found at <http://wiki.knoesis.org/SWPM09>.

Satya Sahoo also attended the 8th International Conference on Ontologies, Databases and Applications of Semantics (ODBSE09), where he presented his research paper describing work with the University of Georgia on addressing the four aspects of managing scientific provenance information in parasite research – provenance capture, representation, storage, and analysis. The slides for the talk can be found [here](#). He also chaired a session on “Data Heterogeneity” at the same conference.

Satya has published 16 papers and served on 10 program committees so far, including major conferences such as ODBASE08 and ODBASE09. He has completed internships at the National Library of Medicine (twice) and Microsoft Research, and has led or actively participated in two W3C activities.



Satya with keynote speaker Prof. Carole Goble and his advisor, Prof. Amit Sheth



Sir Tim Berners-Lee, father of the Web, recording conversation during Karthik Gomadam's demonstration of the Kno.e.sis Center's ISWC Semantic Web Challenge called [Twitris](#). Twitris allows analysis of social discourse, currently on twitter, along time, space and them-- what, where and when people are talking about a topic, and how the individual and aggregate social media conversation changes by time and space.

[Karthik Gomadam](#), a 2009 graduate from Kno.e.sis Center, received the 1st prize for his work on [TrialX](#) in the prestigious ISWC Semantic Web challenge where major groups from around the world competed.

