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Nanoinformatics 2010: Community-wide collaboration for the collection, curation, analysis, and dissemination of nanotechnology data

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Nanoinformatics is the science and practice of determining which information is relevant to the nanoscale science and engineering community, and then developing and implementing effective mechanisms for collecting, validating, storing, sharing, analyzing, modeling, and applying that information. Existing nanoinformatics initiatives have developed independently and in ad hoc manner within specific communities of practice, such as nanomanufacturing. While coordination and cross-fertilization among projects would mitigate redundancy and enhance complementarity, there has been no overarching plan to coordinate these diverse efforts to date. Nanoinformatics 2010 began the process of coordinating effort across the community, by surveying the current nanoinformatics landscape and stimulating collaborative activities and pilot projects.

Program Overview

**Wednesday, November 3**

**Nanoinformatics Landscape**

Goal: To achieve a broad understanding of nanoinformatics activities both through demonstrations of existing nanoinformatics projects and through presentations of informatics activities from the nanotechnology research & development domain as well as exemplar disciplines.

**Thursday, November 4**

**Nanoinformatics Roadmapping**

Goal: To stimulate discussion and launch the roadmapping activities that are the primary objective of the workshop, wherein themed groups will focus on a single set of informatics issues in depth and craft specific recommendations to address them.

**Friday, November 5**

**Nanoinformatics Roadmapping**

Goal: To wrap up the roadmapping activities through report-ins and general discussion and to coordinate the pilot projects which will move activities forward to 2011.

**Nanoinformatics 2010: A Collaborative Roadmapping Workshop**

**Themes**

- Data collection and curation
- Tools for innovation, analysis and simulations
- Data accessibility and information sharing

**Outcomes**

- Identification of cross-cutting themes that transcend the thematic architecture of the meeting
- Establishment of pilot projects for community engagement, standards, and tool development
- Creation of community-owned Nanoinformatics Roadmap