

Ontologies for Materials-Databases Interoperability (OMDI2021)

Tuesday, Oct 5 (all times in CEST)

8:50 - 9:00 - Logging in

9:00 - 9:05 - Opening and welcome

Ontologies and their place in open science (chair: Rickard Armiento)

9:05 - 9:45 - Peter Murray-Rust

Scientific Ontologies in the Digital Age

9:55 - 10:35 - Emanuele Ghedini

10:45 - 11:00 - Coffee

11:00 - 11:40 - Session discussion

11:40 - 11:50 - Short break

11:50 - 12:30 - Session discussion continued

Lunch - Online meeting active for digital lunch together

Ontologies for data exchange (chair: David Cebon)

14:00 - 14:20 - Elsa Olivetti

14:25 - 14:45 - Luca Ghiringhelli

14:50 - 15:10 - Patrick Lambrix

Lessons learned for developing ontologies

15:15 - 16:00 - Session discussion

16:00 - 16:20 - Coffee

Ontologies for data exchange II (chair: Anthony Scemama)

16:20 - 16:40 - Gian-Marco Rignanese

The OPTIMADE REST API for Querying Materials Databases: Challenges and Opportunities

16:45 - 17:05 - Cormac Toher

17:10 - 17:20 - Short break

17:20 - 17:40 - Ellad Tadmor

Standard Access to Datasets for Training Interatomic Potentials

17:40 - 18:30 - Session discussion

18:30 - 19:30 - Poster session

Program

OMDI2021

Wednesday, Oct 6

8:55 - 9:00 - Welcome

Ontologies in materials science (*chair: Matthias Scheffler*)

9:00 - 9:20 - James Hester

9:25 - 9:45 - Toshihiro Ashino

Materials Ontology: An Infrastructure for Exchanging Materials Information and Knowledge

9:50 - 10:40 - Session discussion

10:40 - 11:00 - Coffee

Ontologies in materials science II (*chair: Gareth Conduit*)

11:00 - 11:20 - Saulius Gražulis

11:25 - 11:45 - Casper W. Andersen

11:50 - 12:40 - Session discussion

Lunch - Online meeting active for digital lunch together

Ontologies for materials properties (*chair: Nicola Marzari*)

14:00 - 14:20 - Steve Collins

Ontologies for Photon and Neutron Science

14:25 - 14:45 - Giovanni Pizzi

Ontology-driven simulations with AiiDA and common workflows

14:50 - 15:10 - Huanyu Li

An Ontology for the Materials Design Domain

15:15 - 16:05 - Session discussion

16:05 - 16:20 - Coffee

Ontologies for materials properties II (*chair: Stefano Curtarolo*)

16:20 - 16:40 - Zachary Trautt

Exploring FAIR Digital Objects within Materials Science and Engineering

16:45 - 17:05 - Donny Winston

The Materials Research Data Alliance (MaRDA) Data Dictionaries Working Group: A Progress Report

17:10 - 17:20 - Short break

17:20 - 17:40 - Matthew Horton

17:45 - 18:30 - Session discussion

Dinner - Dinner for in-person participants

Page 2/3



LINKÖPING
UNIVERSITY



MARVEL



NATIONAL CENTRE OF COMPETENCE IN RESEARCH

SERC
Swedish e-Science Research Centre

Program

OMDI2021

Thursday, Oct 7

8:55 - 9:00 - Welcome

Ontologies for data integration (chair: *Sara Bonella*)

9:00 - 9:20 - Davide Di Stefano

9:25 - 9:45 - Mina Abd Nikooie Pour

A First Step towards Extending the Materials Design Ontology

9:50 - 10:40 - Session discussion

10:40 - 11:00 - Coffee

Ontologies for data integration II (chair: *Luca Ghiringhelli*)

11:00 - 11:20 - Evgeny Blokhin

Tackling the OWL2 complexity using the Python interface to the FaCT++ reasoner

11:25 - 11:45 - Thomas Hagelien

11:50 - 12:40 - Session discussion

Lunch - Online meeting active for digital lunch together

Ontology use in applications (chair: *Gerhard Goldbeck*)

14:00 - 14:20 - Olga Wodo

Incomplete microstructural-property database and data consolidation for organic electronics datasets

14:25 - 14:45 - Gareth Conduit

Ontologies for machine learning driven materials design

14:50 - 15:35 - Session discussion

15:35 - 16:00 - Coffee

16:00 - 16:20 - Chris Mungall

Experiences in the biosciences with the Open Biological Ontologies Foundry and the Gene Ontology

16:25 - 18:00 - Synopsis, outlook, and goodbye

Page 3/3



LINKÖPING
UNIVERSITY



NATIONAL CENTRE OF COMPETENCE IN RESEARCH

