AcE-Methods

Report of Contributions

Contribution ID: 1 Type: not specified

Arrival and coffee / Welcome to the HZDR

Monday 20 March 2023 08:45 (30 minutes)

Presenter: STUMPF, Thorsten (IRE/HZDR)

Session Classification: Day 1

Contribution ID: 2 Type: not specified

THE ACE PROJECT AND THE METHODS WORKSHOP

Monday 20 March 2023 09:15 (20 minutes)

Presenter: HUITTINEN, Nina (IRE/HZDR)

Session Classification: Day 1

Contribution ID: 3 Type: not specified

Plenary lecture: Syntheses

Monday 20 March 2023 09:35 (45 minutes)

Plenary lecture: Syntheses

Presenter: DACHEUX, Nicolas (ICSM, University of Montpellier, CEA, CNRS, ENSCM)

Session Classification: Day 1

Contribution ID: 4 Type: **not specified**

SYNTHESIS AND CHARACTERIZATION OF URANIUM OXIDE MICROSPHERES FOR TRANSMUTATION TARGETS

Monday 20 March 2023 10:20 (20 minutes)

Presenter: COLAK, Gamze (Mol, Leuven, Belgium)

Session Classification: Day 1

Contribution ID: 5 Type: **not specified**

LAB SCALE SYNTHESIS OF DEFECT-FREE CERAMICS WITH HIGH DENSITY

Monday 20 March 2023 10:40 (20 minutes)

Presenter: NIESSEN, Jonas (Aachen, Germany)

Session Classification: Day 1

Contribution ID: 6 Type: **not specified**

Plenary lecture: DIFFRACTION METHODS AT THE ROSSENDORF BEAMLINE - A TECHNICAL OVERWIEW WITH EXAMPLES

Monday 20 March 2023 11:30 (45 minutes)

Plenary lecture: DIFFRACTION M \dots

Presenter: HENNIG, Christoph (IRE/HZDR, ROBL/ESRF)

Session Classification: Day 1

Contribution ID: 7

Type: not specified

FISSION PRODUCTS SPECIATION IN SPENT NUCLEAR FUEL: SYNTHESIS, CHARACTERIZATION, AND OXIDATION BEHAVIOUR OF MIXED-OXIDE (U,PU)O2 SIMFUEL

Monday 20 March 2023 12:15 (20 minutes)

Presenter: CAPRANI, Rafael (Marcoule, France)

Session Classification: Day 1

Contribution ID: 8 Type: not specified

DISCOVERY OF ROBUST NUCLEAR MATERIALS USING EXTREME CONDITIONS

Monday 20 March 2023 12:35 (20 minutes)

Presenter: SVITLYK, Volodymyr (Dresden, Germany and Grenoble, France)

Session Classification: Day 1

Contribution ID: 9 Type: **not specified**

PROGRESS TOWARDS THE IMMOBILISATION OF THE UK PLUTONIUM INVENTORY IN TITANATE CERAMICS

Monday 20 March 2023 14:35 (20 minutes)

Presenter: BLACKBURN, Lewis (Sheffield, United Kingdom)

Session Classification: Day 1

Contribution ID: 10 Type: not specified

EVALUATION OF SURROGATE-MODELS FOR THE INCORPORATION OF TETRAVALENT ACTINIDES IN MONAZITE PHASES

Monday 20 March 2023 14:55 (20 minutes)

Presenter: LENDER, Theresa (Aachen, Germany)

Session Classification: Day 1

Contribution ID: 11 Type: not specified

AcE project discussion (closed group)

Monday 20 March 2023 15:35 (1h 30m)

Session Classification: Day 1

AcE-Methods

/ Report of Contributions

Arrival and coffee

Contribution ID: 12 Type: not specified

Arrival and coffee

Tuesday 21 March 2023 08:45 (15 minutes)

Session Classification: Day 2

Contribution ID: 14 Type: **not specified**

Plenary lecture: SOME APPLICATIONS OF RAMAN SPECTROSCOPY IN THE NUCLEAR FIELD

Tuesday 21 March 2023 09:00 (45 minutes)

Plenary lecture: SOME APPLICAT \dots

Presenter: MERMOUX, Michel (CNRS, Grenoble)

Session Classification: Day 2

Contribution ID: 15 Type: not specified

BONDING PROPERTIES OF URANIUM CARBONATE SPECIES IN LIQUID AND SOLID STATE IN MULTIPLE OXIDATION STATES STUDIED BY U M4-EDGE HIGH RESOLUTION X-RAY SPECTROSCOPY

Tuesday 21 March 2023 09:45 (20 minutes)

Presenter: VOLLMER, Christian (Karlsruhe, Germany)

Session Classification: Day 2

Contribution ID: 16

Type: not specified

CATION-DRIVEN PHASE SEPARATION IN INTERNALLY GELATED (U1-ZCEZ)O2±X MICROSPHERES, WITH Z={0.05, 0.10, 0.15, 0.20, 0.25, 0.30}, OBTAINED VIA A CE(NO3)3 PRECURSOR

Tuesday 21 March 2023 10:05 (20 minutes)

Presenter: UYGUR, Selim (Mol, Leuven, Belgium)

Session Classification: Day 2

Contribution ID: 17 Type: not specified

Plenary lecture: ELECTRON MICROSCOPY TECHNIQUES: WHEN A MICROGRAPH IS WORTH A 1000000x WORDS

Tuesday 21 March 2023 11:00 (45 minutes)

Plenary lecture: ELECTRON MIC ...

Presenter: BULGHERONI, Antonio (JRC)

Session Classification: Day 2

Contribution ID: 18 Type: not specified

LUMINESCENCE SPECTROSCOPY AND DIFFRACTION STUDIES OF ZIRCONIA SOLID PHASES CONTAINING CERIUM

Tuesday 21 March 2023 11:45 (20 minutes)

Presenter: BRAGA FERREIRA DOS SANTOS, Luiza (Dresden, Germany)

Session Classification: Day 2

Contribution ID: 19 Type: not specified

INVESTIGATION OF THE STRUCTURAL INCORPORATION OF DOPANTS INTO URANIUM OXIDES

Tuesday 21 March 2023 12:05 (20 minutes)

Presenter: POTTS, Shannon (Jülich, Germany)

Session Classification: Day 2

AcE-Methods

/ Report of Contributions

Lab tour

Contribution ID: 20 Type: not specified

Lab tour

Tuesday 21 March 2023 13:45 (1h 30m)

Session Classification: Day 2

Contribution ID: 21

Type: not specified

SPECTROSCOPIC ANALYSIS OF MIXED ACTINIDE OXIDES BY AN M4,5 EDGE HIGH ENERGY RESOLUTION XANES (HR-XANES) IN BULK- AND NANO-MATERIALS

Tuesday 21 March 2023 15:15 (20 minutes)

Presenter: PALINA MÜLLER, Natalia (Karlsruhe, Germany)

Session Classification: Day 2

Contribution ID: 22 Type: not specified

MODEL SYSTEM STUDIES OF ADVANCED (SPENT) NUCLEAR FUEL MATERIALS

Tuesday 21 March 2023 15:35 (20 minutes)

Presenter: MURPHY, Gabriel (Jülich, Germany)

Session Classification: Day 2

Contribution ID: 23 Type: not specified

Plenary lecture: Thermodynamics and dissolution

Tuesday 21 March 2023 16:15 (45 minutes)

Plenary lecture: Thermodynamics...

Presenter: GAONA, Xavier (INE/KIT)

Session Classification: Day 2

Arrival and coffee

Contribution ID: 25 Type: not specified

Arrival and coffee

Wednesday 22 March 2023 08:45 (15 minutes)

Session Classification: Day 3

Contribution ID: 26

Type: not specified

ROBL-II AT ESRF: A SYNCHROTRON TOOLBOX FOR ACTINIDE RESEARCH

Wednesday 22 March 2023 14:10 (20 minutes)

Presenter: PRIEUR, Damien (Dresden, Germany and Grenoble, France)

Session Classification: Day 3

Contribution ID: 27 Type: not specified

LUMINESCENCE SPECTROSCOPY AS A TOOL FOR INVESTIGATING THE F-ELEMENT ENVIRONMENT IN CRYSTALLINE SOLID PHASES

Wednesday 22 March 2023 09:00 (20 minutes)

Presenter: HUITTINEN, Nina (Dresden, Germany)

Session Classification: Day 3

Contribution ID: 28 Type: not specified

SOLID SOLUTION FORMATION IN Nd2O3-EuCl3-NdCl3-NaCl-H2O SYSTEM

Wednesday 22 March 2023 09:20 (20 minutes)

Presenter: DUMPALA, Rama Mohana Rao (Karlsruhe, Germany)

Session Classification: Day 3

Contribution ID: 29 Type: not specified

Plenary lecture: Radiation damages

Wednesday 22 March 2023 10:30 (45 minutes)

Plenary lecture: Radiation damages

Presenter: WISS, Thierry (JRC)

Session Classification: Day 3

Contribution ID: 30 Type: not specified

STRUCTURAL ANALYSES OF HEAVY-ION IRRADIATED MONAZITES

Wednesday 22 March 2023 11:15 (20 minutes)

Presenter: GILSON, Sara (Dresden, Germany)

Session Classification: Day 3

Contribution ID: 31 Type: not specified

AB INITIO MODELING OF MAGNETITE SURFACES FOR PLUTONIUM RETENTION

Wednesday 22 March 2023 11:35 (20 minutes)

Presenter: KATHERAS, Anita (Bern, Switzerland)

Session Classification: Day 3

Contribution ID: 32 Type: not specified

STRUCTURAL CHANGES IN LANTHANIDE BEARING MONAZITE UNDER SWIFT HEAVY ION IRRADIATION

Wednesday 22 March 2023 13:30 (20 minutes)

Presenter: MARQUARDT, Julien (Frankfurt, Germany)

Session Classification: Day 3

Contribution ID: 33 Type: not specified

REDUCTION OF PERTECHNETATE BY MAGNETITE –INFLUENCE OF PH AND TIME

Wednesday 22 March 2023 13:50 (20 minutes)

Presenter: ZIMMERMANN, Thomas (Dresden, Germany)

Session Classification: Day 3

Contribution ID: 34 Type: not specified

Short note from our sponsors: Dectris

Monday 20 March 2023 14:20 (15 minutes)

Session Classification: Day 1

Contribution ID: 35 Type: not specified

Short note from our sponsors: Quantum Design

Wednesday 22 March 2023 09:40 (15 minutes)

Session Classification: Day 3