



**VSB TECHNICAL
UNIVERSITY
OF OSTRAVA**

2. 3. 2021

ON-LINE INTERNATIONAL CONFERENCE NKMEA

project OP VVV no. CZ.02.1.01/0.0/0.0/17_048/0007399

VSB-TUO, Department of Physics in cooperation with Nanotechnology centre

JEP University in Ústí nad Labem, IPM CAS CR v.v.i. Brno and BC, CAS CR, v.v.i. České Budějovice

On-line International conference NKMEA

Chairman: Oldřich Motyka

Platform: MS TEAMS

Registrations: February 24, 2021

<http://nkmea.vsb.cz/seminare/>



EUROPEAN UNION
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MINISTRY OF EDUCATION,
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CONFERENCE PROGRAMME

2.3.2021

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9.00 - 9.10 Foreword Petr Hlubina

9.10 - 9.30: P. Janoš

Composite Fe/Ce oxides: properties and environmental applications

9.30 - 9.50: A. Chrobak

Low temperature magnetic measurements of CeO₂ nanopowders using SQUID magnetometry method

9.50 - 10.10: O. Životský

Structural, phase, and magnetic analysis for effective applications of nano-ceria/iron-oxide composites (1st part)

10.10 - 10.30: Y. Jirásková

Structural, phase, and magnetic analysis for effective applications of nano-ceria/iron-oxide composites (2nd part)

10.30 - 10.45 Break

10.45 - 11.05: I. Šafařík

Magnetically modified adsorbents for pollutant removal

11.05 - 11.25: K. Pospíšková

Biochar (nano)composites for the removal of hazardous pollutants

11.25 - 11.45: M. Tokarčíková

Experimental verification of regenerable magnetically modified montmorillonite and its application for heavy metals removal from metallurgical waste leachates

11.45 - 12.05: J. Seidlerová

Brief recapitulation of the possible applications of magnetically modified sorbents

12.05 - 12.45 Break

12.45 - 13.05: P. Hlubina

New approach in sensing based on surface waves

13.05 - 13.25: P. Urbancová

2D grating structure for refractive index sensing based on surface plasmon resonance

13.25 - 13.45: D. Ciprian

Optical sensors based on Bloch surface waves

13.45 - 14.05: M. Gryga

Sensing of gaseous analytes using Bloch surface waves

14.05 - 14.25: R. Kaňok

SPR phase detection via interferometry in the spatial domain

14.25 - 14.45: J. Chylek

Optical sensors based on guided-mode resonances



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