

7<sup>th</sup> Conference of the Serbian Society for Ceramic Materials  
June 14-16, 2023, Belgrade, Serbia  
**PROGRAMME of 7CSCS–2023**

**DAY 1 – Wednesday – June 14, 2023**

08.00-09.00	<b>Registration</b>
09.00-09.15	<b>Opening ceremony and welcome addresses</b>
09.15-09.30	<b>Cocktail</b>

09.30-10.00	<b>Plenary lecture, PL-1</b> Neven Barišić, <i>OPTICAL CONDUCTIVITY OF CUPRATES IN A NEW LIGHT</i> Chairs: Branko Matović, Jelena Maletaškić
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**SESSION 1. CERAMIC POWDERS, CHARACTERIZATION AND PROCESSING**

Chairs: Aleksandar Radojković, Zoltán Lenčéš

10.00-10.20	<b>Invited lecture, I-1</b> Zoltán Lenčéš, <i>TRANSLUCENT/TRANSPARENT SPINEL PHOSPHORS FOR SOLID STATE LIGHTING AND PHOTOCATALYTIC APPLICATIONS</i>
10.20-10.35	<b>Oral presentation, O-1</b> Sanita Ahmetović, <i>SYNTHESIS AND CHARACTERIZATION OF PURE AND SM-, ZR-DOPED TiO<sub>2</sub> NANOFIBERS AND ITS PHOTOCATALYTIC ACTIVITY</i>
10.35-10.50	<b>Oral presentation, O-2</b> Jovana Acković, <i>CRYSTALLOGRAPHIC INVESTIGATION OF THE IRON PHOSPHATE TUNGSTEN BRONZE (Fe-PWB)</i>
10.50-11.05	<b>Coffee break</b>

**SESSION 2. HIGH TEMPERATURE PHENOMENA, SINTERING, MICROSTRUCTURE DESIGN AND MECHANICAL PROPERTIES**

Chairs: Peter Tatarko, Ravi Kumar

11.05-11.25	<b>Invited lecture, I-2</b> Ravi Kumar, <i>COOLING RATE DEPENDENT MECHANICAL AND THERMAL PROPERTIES OF ENTROPY STABILIZED OXIDES</i>
11.25-11.45	<b>Invited lecture, I-3</b> Ankit Srivastava, <i>IN-SITU ANALYSIS OF DAMAGE TOLERANCE MECHANISMS IN LAYERED CRYSTALS</i>

- 11.45-12.05**     **Invited lecture, I-4**  
Peter Tatarko, *NEW HIGH-ENTROPY CERAMICS FOR EXTREME ENVIRONMENT APPLICATIONS*
- 12.05-12.25**     **Invited lecture, I-5**  
Jelena Mitrović, *CORRELATION BETWEEN THE MICROSTRUCTURE AND ELECTRICAL PROPERTIES OF SB-DOPED BASNO<sub>3</sub> CERAMICS*
- 12.25-12.40**     **Oral presentation, O-3**  
Manuel Gruber, *EXPLORING THE USE OF ADVANCED CERAMICS FOR SPARK PLUG ELECTRODES OF LARGE GAS ENGINES*
- 12.40-12.55**     **Oral presentation, O-4**  
Inga Zhukova, *DESIGN, SYNTHESIS, AND MECHANICAL PROPERTIES OF DIBORIDE STRUCTURES WITH DIFFERENT MOLAR RATIOS OF TRANSITION METALS (Ti-Zr-Hf-Nb-Ta)*
- 12.55-13.10**     **Oral presentation, O-5**  
Miloš Dujović, *DEFORMATION AND FRACTURE RESPONSE OF SINGLE CRYSTAL MAX PHASES*

<b>13.10-14.20</b>	<b>Lunch break</b>
<b>13.10-14.20</b>	<b>POSTER SESSION 1</b>

### SESSION 3. ADVANCED MATERIALS FOR ENERGY-RELATED APPLICATIONS

Chairs: Jelena Bobić, Ivana Cvijović Alagić

- 14.20-14.40**     **Invited lecture, I-6**  
Jelena Bobić, *TWO-PHASE AND THREE-PHASE FLEXIBLE THICK FILMS: POTENTIAL USE AS ENERGY STORAGE AND ENERGY HARVESTING SYSTEMS*
- 14.40-14.55**     **Oral presentation, O-6**  
Mirjana Vijatovic Petrovic, *ENHANCED PROPERTIES OF PVDF COMPOSITES BY ACTIVE PHASE SILANIZATION*
- 14.55-15.10**     **Oral presentation, O-7**  
Priyanka Reddy, *NOVEL ELECTRONIC MATERIALS ON THE VERGE OF METALLICITY AND IONICITY*

### SESSION 4. TRADITIONAL CERAMICS AND ENGINEERING MATERIALS

Chairs: Tatjana Volkov-Husović, Zvezdana Baščarević

- 15.10-15.30**     **Invited lecture, I-7**  
Nataša Džunuzović, *ENHANCING THE REACTIVITY OF THE INDUSTRIAL FLY ASH IN THE PROCESS OF ALKALI ACTIVATION*
- 15.30-15.50**     **Invited lecture, I-8**  
Tatjana Volkov-Husović, *CAVITATION EROSION RESISTANCE OF REFRACTORY CERAMICS FOR FOUNDRY COATINGS APPLICATION*
- 15.50-16.10**     **Invited lecture, I-9**  
Snežana Vučetić, *ECO-LOGICAL: DESIGN OF CERAMIC MATERIALS BASED ON THE INDUSTRIAL WASTES*

- 16.10-16.25**     **Oral presentation, O-8**  
 Damjan Vengust, *OVERCOMING SYNTHESIS AND DENSIFICATION CHALLENGES TO IMPROVE THE PROPERTIES OF PMN-33PT PIEZOELECTRIC CERAMICS*
- 16.25-16.40**     **Oral presentation, O-9**  
 Zvezdana Baščarević, *DURABILITY OF HIGH VOLUME FLY ASH BINDERS*
- 16.40-16.55**     **Oral presentation, O-10**  
 Jelena Rakić, *CHEMICAL ACTIVATION OF HIGH VOLUME FLY ASH BINDERS BY SELECTED SODIUM SALTS*

## DAY 2 – Thursday – June 15, 2023

- 9.00-9.30**     **Plenary lecture, PL-2**  
 J. Christian Schön, *THIN FILMS AND MONOLAYERS - PREDICTION, MODELING, AND EXPERIMENTS*  
 Chairs: Jelena Zagorac, K. C. Hari Kumar

### SESSION 5. COMPUTING IN MATERIALS SCIENCE

Chairs: Dasari L. V. K. Prasad, Dejan Zagorac

- 9.30-9.50**     **Invited lecture, I-10**  
 Dasari L. V. K. Prasad, *DATA-MINING FOR NOVEL CERAMIC MATERIALS*
- 9.50-10.10**     **Invited lecture, I-11**  
 K. C. Hari Kumar, *THERMODYNAMIC MODELLING OF CAO-MGO SYSTEM*
- 10.10-10.30**     **Invited lecture, I-12**  
 Yuri Rostovtsev, *QUANTUM SENSORS FOR GAS MIXTURE DETECTION*
- 10.30-10.50**     **Invited lecture, I-13**  
 Dejan Zagorac, *SCANDIUM OXYCHLORIDE (SCOCL): STRUCTURE PREDICTION USING A MULTI-METHODOLOGICAL APPROACH*
- 10.50-11.05**     **Oral presentation, O-11**  
 Jelena Zagorac, *COMPUTATIONAL DISCOVERY OF NEW FEASIBLE CRYSTAL STRUCTURES IN  $Ce_3O_3N$*
- 11.05-11.20**     **Oral presentation, O-12**  
 Iva Toković, *EXPERIMENTAL STUDY AND DFT CALCULATION OF  $LaMnO_3$  BASED THIN FILMS*
- 11.20-11.35**     **Oral presentation, O-13**  
 Milan Pejić, *STRUCTURAL PROPERTIES OF MULTICOMPONENT SOLID SOLUTIONS WITH PYROCHLORE STRUCTURE ON DFT LEVEL*

**11.35-11.50**     **Coffee break**

## SESSION 6. CATALYTIC MATERIALS

Chairs: Matejka Podlogar, Uroš Čakar

- 11.50-12.10**     **Invited lecture, I-14**  
Jovana Ćirković, *PHOTOCATALYTIC DEGRADATION OF MORDANT BLUE 9 BY SINGLE-PHASE BiFeO<sub>3</sub> NANOPARTICLES*
- 12.10-12.30**     **Invited lecture, I-15**  
Matejka Podlogar, *BIO AND PHOTOCATALYTIC DEGRADATION OF TEXTILE FIBER-BASED MICROPLASTICS*
- 12.30-12.45**     **Oral presentation, O-14**  
Uroš Lačnjevac, *TiO<sub>2</sub> NANOTUBE ARRAYS DECORATED WITH IR NANOPARTICLES FOR ENHANCED HYDROGEN EVOLUTION ELECTROCATALYSIS*
- 12.45-13.00**     **Oral presentation, O-15**  
Stefan T. Jelić, *SYNTHESIS OF BISMUTH VANADATE PHOTOCATALYST WITH ENHANCED ADSORPTION PROPERTIES*

**13.00-14.00**     **Lunch break**

**13.00-14.00**     **POSTER SESSION 2**

## SESSION 7. MATERIALS FOR ENVIRONMENTAL TECHNOLOGY

Chairs: Zorica Branković, Slavica Lazarević

- 14.00-14.20**     **Invited lecture, I-16**  
Uroš Čakar, *THE INFLUENCE OF TECHNOLOGICAL PROCESS ON THE CONTENT OF NATURAL ACTIVE PRINCIPLES FROM FRUIT WINES AND ITS BENEFICIAL HEALTH EFFECTS*
- 14.20-14.40**     **Invited lecture, I-17**  
Malcolm Watson, *ADSORBENT MATERIALS: RECENT ADVANCES IN WATER TREATMENT*
- 14.40-15.00**     **Invited lecture, I-18**  
Slavica Lazarević, *SEPIOLITE-BASED NANOMATERIALS: STRUCTURE, PROPERTIES, AND APPLICATIONS FOR THE REMOVAL OF POLLUTANTS FROM WATER SOLUTIONS*

## SESSION 8. MATERIALS FOR SENSING DEVICES

Chairs: Nikola Tasić, Samo B. Hočevar

- 15.00-15.20**     **Invited lecture, I-19**  
Samo B. Hočevar, *DEVELOPMENT OF DISPOSABLE TRACE METAL SENSORS, BIOSENSORS, AND GAS SENSORS USING VARIOUS MODIFICATION MATERIALS AND SCREEN-PRINTED ELECTRODES*
- 15.20-15.30**     **Invited lecture, I-20**  
Nikola Tasić, *POINT-OF-INTEREST ELECTROCHEMICAL DETECTION OF SARS-COV-2 VIRUS*

- 15.30-15.50**     **Invited lecture, I-21**  
Jelena Isailović, *INCORPORATION AND STABILIZATION OF Ti3C2Tx MXENE INTO THE SENSITIVE H<sub>2</sub>O<sub>2</sub> GAS SENSING PLATFORM*
- 15.50-16.05**     **Oral presentation, O-16**  
Sara Joksović, *THE DEVELOPMENT OF COST-EFFECTIVE CARBON-BASED TRANSPARENT ELECTRODES IN THE MID-INFRARED REGION*
- 16.05-16.20**     **Oral presentation, O-17**  
Aleksandar Malešević, *HIGH-TEMPERATURE HUMIDITY SENSING ABILITY OF INDIUM-DOPED BARIUM CERATE*

**20.00-01.00**     **CONFERENCE DINNER at AMFORA**

### **DAY 3 – Friday – June 16, 2023**

- 9.00-09.30**     **Plenary lecture, PL-3**  
Miladin Radović, *TOWARDS SAFER AND SCALABLE SYNTHESIS OF MXene*  
Chairs: Nikola Kanas, Konstantina Lambrinou

#### **SESSION 9. CERAMIC COMPOSITES, MEMBRANES AND MULTIMATERIALS**

Chairs: Miladin Radović, Žaklina Burghard

- 09.30-09.50**     **Invited lecture, I-22**  
Waltraud M. Kriven, *MULTIFUNCTIONAL, REFRACTORY, GEOPOLYMER COMPOSITES*
- 09.50-10.10**     **Invited lecture, I-23**  
Konstantina Lambrinou, *DEGRADATION OF CVD SiC DURING SYNERGISTIC PROTON IRRADIATION/CORROSION TESTS*
- 10.10-10.30**     **Invited lecture, I-24**  
Dorota Chudoba, *NANOMATERIALS IN APPLICATION IN BIOMEDICINE*
- 10.25-10.40**     **Oral presentation, O-18**  
Žaklina Burghard, *A STRAIGHTFORWARD METHOD FOR SCROLLING PLANAR MATERIALS INTO FREE-STANDING 3D STRUCTURES WITH A SIGNIFICANT REDUCTION IN AREA FOOTPRINT*

**10.40-11.00**     **Coffee break**

#### **SESSION 10. ELECTRO AND MAGNETIC CERAMICS**

Chairs: Slavko Bernik, Goran Branković

- 11.00-11.20**     **Invited lecture, I-25**  
Kamila Komędera, *MOSSBAUER SPECTROSCOPY OF BIFeO<sub>3</sub>-BASED COMPOUND*
- 11.20-11.40**     **Invited lecture, I-26**  
Slavko Bernik, *INFLUENCE OF PARTICULAR DOPANTS ON THE CHARACTERISTICS OF A NOVEL ZnO-Cr<sub>2</sub>O<sub>3</sub>-BASED VARISTOR CERAMIC*

- 11.40-12.00**     **Invited lecture, I-27**  
Tomislav Ivek, *COLOSSAL MAGNETORESISTANCE AND METASTABILITY IN  $La_{1-x}Ca_xMnO_3$  ( $0.5 \leq X \leq 0.75$ ) THIN FILMS*
- 12.00-12.20**     **Invited lecture, I-28**  
Zoran Jovanović, *PLD GROWTH OF FUNCTIONAL OXIDES ON RGO-BUFFERED SILICON SUBSTRATE*
- 12.20-12.40**     **Invited lecture, I-29**  
Nikola Kanas, *RECENT PROGRESS ON OXIDE THERMOELECTRIC MATERIALS AND DEVICES*
- 12.40-13.00**     **Invited lecture, I-30**  
Sanja Perać, *THERMOELECTRIC CU DOPED SODIUM COBALTITE – STRUCTURAL, MAGNETIC AND MECHANICAL PROPERTIES*
- 13.00-13.15**     **Oral presentation, O-19**  
Aleksandar Radojković, *TUNING OF FERROELECTRIC PROPERTIES OF  $BiFeO_3$  CERAMICS BY CATION SUBSTITUTIONS AT BI-SITE AND FE-SITE*

**13.15-14.30**     **Lunch break**

**14.30-15.00**     **Closing ceremony**

## POSTER SESSION

### DAY 1 – Wednesday – June 14, 2023

#### Poster session 1     CERAMIC POWDERS, CHARACTERIZATION AND PROCESSING

- P1.** Bratislav Todorović, *ELECTRON SPIN RESONANCE OF VANADYL IONS IN THE KAOLINITE STRUCTURE: KGA-1 KAOLINITE (GEORGIA, USA)*
- P2.** Milena Rosić, *SYNTHESIS, CHARACTERIZATION AND PHOTOCATALYTIC EXAMINATION OF  $CO_{0.9}HO_{0.1}MoO_4$  NANOPOWDERS*
- P3.** Tijana B. Vlašković, *SYNTHESIS AND CRYSTAL STRUCTURE OF  $Ca_{0.9}Er_{0.1}MnO_3$*
- P4.** Božana Petrović, *Mg SUBSTITUTED HYDROXYAPATITE FOR APPLICATION IN BONE TISSUE ENGINEERING*
- P5.** Aleksa Luković, *CHARACTERIZATION OF HIGH-ENTROPY  $A_2B_2O_7$  PYROCHLORE OBTAINED VIA COMBUSTION SYNTHESIS AND POST-CALCINATION*
- P6.** Marija Prekajski Đorđević, *ENTROPY-STABILIZED OXIDES OWNING FLUORITE STRUCTURE: PREPARATION AND SINTERING*

**Poster session 1** HIGH TEMPERATURE PHENOMENA, SINTERING,  
MICROSTRUCTURE DESIGN AND MECHANICAL PROPERTIES

**P7.** Jelena Mitrović, *THE INFLUENCE OF SPARK PLASMA SINTERING TEMPERATURE ON THE PROPERTIES OF Sb-DOPED BARIUM STANNATE CERAMICS*

**P8.** Vladimir Pavkov, *ANDESITE BASALT AS A NATURAL RAW MATERIAL FOR OBTAINING GLASS-CERAMIC*

**Poster session 1** ADVANCED MATERIALS FOR ENERGY-RELATED APPLICATIONS

**P9.** Jana Mužević, *METAL-ORGANIC PEROVSKITES [C(NH<sub>2</sub>)<sub>3</sub>][MII(HCOO)<sub>3</sub>] (M = Cu, Mn AND Co)*

**P10.** Aleksandar Maslarevic, *THERMAL SPRAYING OF Ti<sub>2</sub>AlC COATINGS*

**P11.** Željko Mravik, *STRUCTURAL MODIFICATION OF GRAPHENE OXIDE/12 TUNGSTOPHOSPHORIC ACID COMPOSITES VIA ION BEAM IRRADIATION FOR IMPROVED ELECTROCHEMICAL CHARGE STORAGE*

**Poster session 1** COMPUTING IN MATERIALS SCIENCE

**P12.** Tamara Škundrić, *AB INITIO INVESTIGATION OF THE NOVEL Cr<sub>2</sub>SiN<sub>4</sub> COMPOUND UNDER EXTREME PRESSURE CONDITIONS*

**P13.** Dejan Zagorac, *THEORETICAL STUDY OF ALN/BN MIXED CHEMICAL SYSTEMS AND THEIR MECHANICAL PROPERTIES*

**P14.** Tamara Škundrić, *ENERGY LANDSCAPE EXPLORATION AND CRYSTAL STRUCTURE PREDICTION OF TWO NOVEL COMPOUNDS IN THE Cr-Si-N SYSTEM*

**P15.** Jelena Zagorac, *ZnO/ZnS CORE/SHELL NANOSTRUCTURES: EXPERIMENTS COMBINED WITH AB INITIO CALCULATIONS*

**P16.** Milan Pejić, *ENERGY LANDSCAPE AND CRYSTAL STRUCTURE INVESTIGATIONS OF LANTHANUM FLUORO SULFIDE LAFS*

**P17.** Dragana Jordanov, *ELECTRONIC PROPERTIES OF PREDICTED Y<sub>2</sub>O<sub>2</sub>S USING AB INITIO CALCULATIONS*

**P18.** Dušica Jovanović, *DFT STUDY OF GLUTAMINE (L) MOLECULE INTERACTION WITH THE 001 AND 101 ANATASE SLAB SURFACES IN A VACUUM*

**P19.** Dušica Jovanović, *DFT STUDY OF NEW HYBRID ORGANIC-INORGANIC PEROVSKITES: GUANIDINIUM-BX<sub>3</sub> SUBSTITUTED BY B = (Sn<sup>2+</sup>, Ge<sup>2+</sup>, Ba<sup>2+</sup>, Zn<sup>2+</sup>) AND X = (I<sup>-</sup>, Br<sup>-</sup>)*

**Poster session 1** MATERIALS FOR ENVIRONMENTAL TECHNOLOGY

**P20.** Vladimir Dodevski, *EXAMINATION OF IQOS RESIDUE, ENVIRONMENTAL IMPACT AND POTENTIAL APPLICATION*

**P21.** Vladimir Dodevski, *EXAMINATION OF DIFFERENT RAW MATERIALS, AS PRECURSORS FOR OBTAINING CARBON MATERIALS*

**P22.** Sanja Krstić, *SUPERCAPACITIVE PROPERTIES OF CARBON MATERIALS ACTIVATED BY ALKALI METAL HYDROXIDES OBTAINED FROM SUCROSE*

**P23.** Nenad Nikolić, *ZnMn<sub>2</sub>O<sub>4</sub> AS A CATHODE MATERIAL IN AN AQUEOUS SOLUTION OF ZnCl<sub>2</sub> AND Mn(NO<sub>3</sub>)<sub>2</sub> FOR ZN-ION BATTERIES*

**P24.** Miroslav Hnatko, *ELECTROCHEMICAL FABRICATION OF TiO<sub>2</sub> NANOTUBE ARRAYS IN FLUORIDE-FREE SYSTEM*

**P25.** Željka Milovanović, *PREPARATION AND CHARACTERIZATION OF SEPIOLITE/ZrO<sub>2</sub> COMPOSITES FOR PHOSPHATE REMOVAL FROM AQUEOUS SOLUTIONS*

## DAY 2 – Thursday – June 15, 2023

### Poster session 2 CATALYTIC MATERIALS

**P26.** Bojana Simović, *Ag/ZnO NANOCOMPOSITES FOR PHOTOCATALYTIC APPLICATION*

**P27.** Tijana Stamenković, *CHARACTERIZATION AND PHOTOCATALYTIC ACTIVITY OF NEWLY SYNTHESIZED ER AND YB DOPED SrGd<sub>2</sub>O<sub>4</sub> NANOPHOSPHORUS*

**P28.** Marija Egerić, *METAL ORGANIC FRAMEWORK/POLYAMIDE ELECTROSPUN NANOFIBERAS MEAN FOR CONGO RED DYE PHOTOCATALYTIC DEGRADATION*

**P29.** Marko Jelić, *INFLUENCE OF SWIFT HEAVY ION IRRADIATION ON PHYSICOCHEMICAL PROPERTIES OF BISMUTH-VANADATE*

**P30.** Bojan Miljević, *PHOTOCATALYTIC EFFICIENCY ASSESSED IN SOLID STATE PHASE APPLICATION*

**P31.** Milinko Perić, *DEVELOPMENT OF Ti3C<sub>2</sub>TX FOR PHOTOCATALYTIC WATER PURIFICATION*

**P32.** Dragana Milošević, *THE INFLUENCE OF THERMAL ANNEALING OF PT-BASED THIN FILMS ON ELECTRO-OXIDATION OF FORMIC ACID*

### Poster session 2 MATERIALS FOR SENSING DEVICES

**P33.** Mihael Brezak, *SYNTHESIS OF EU AND YB BASED DIRAC SEMIMETALS*

**P34.** Tijana Stamenković, *ENHANCEMENT OF UP-CONVERSION LUMINESCENT CHARACTERISTICS OF Yb<sup>3+</sup>/HO<sup>3+</sup> CO-DOPED Bi<sup>3+</sup> BASED SrGd<sub>2</sub>O<sub>4</sub> NANOPARTICLES*

### Poster session 2 CERAMIC COMPOSITES, MEMBRANES AND MULTIMATERIALS

**P35.** Svetlana Butulija, *BACTERIAL CELLULOSE (BC)-CeO<sub>2</sub> NANOCOMPOSITE FILM FOR CHRONIC WOUND TREATMENT*

**P36.** Jelena Maletaškić, *SYNTHESIS AND CHARACTERIZATION OF REINFORCED ALUMINA COMPOSITES*



**P37.** Danica Maksimović, *ALUMINUM-BASED COMPOSITES REINFORCED WITH CERAMIC FIBERS*

**P38.** Branko Matovic, *SPS DENSIFICATION OF B<sub>4</sub>C-SiC COMPOSITES*

## **Poster session 2 | ELECTRO AND MAGNETIC CERAMICS**

**P39.** Zorka Ž. Vasiljević, *INVESTIGATING NTC THERMISTOR, FERROELECTRIC AND ELECTRIC PROPERTIES OF Fe<sub>2</sub>TiO<sub>5</sub>*

**P40.** Milena Rosić, *INFLUENCE OF Gd-DOPING ON ELECTRICAL PROPERTIES IN Ca<sub>1-x</sub>Gd<sub>x</sub>MnO<sub>3</sub> (X=0.05, 0.1, 0.15, 0.2) PEROVSKITES*

**P41.** Milena Rosić, *EFFECT OF CoMoO<sub>4</sub> NANOPOWDERS SYNTHESIZED BY GLYCINE NITRATE PROCEDURE AND CALCINATED AT 450 °C ON BRIGGS-RAUSCHER OSCILLATORY DYNAMICS*

**P42.** Milica Vujković, *WHAT HAPPENS WHEN BiFeO<sub>3</sub> UNDERGOES POTENTIODYNAMIC POLARIZATION?*

**P43.** Maria Čebela, *INFLUENCE OF Ag DOPING ON THE MORPHOLOGICAL AND MAGNETIC PROPERTIES IN CUO NANOPOWDERS*

**P44.** Karolina Siedliska, *HYPERFINE INTERACTIONS IN THE HEXAGONAL STRUCTURE OF CuFeO<sub>2</sub> DELAFOSSITE*

**P45.** Maria Čebela, *SYNTHESIS, STRUCTURE AND MAGNETIC PROPERTIES OF Fe<sub>2</sub>TiO<sub>5</sub>*