

# CONGRESUL

ACADEMIEI ROMÂNNO-AMERICANE

DE ARTE ȘI ȘTIINȚE

EDIȚIA 44, 23-25 octombrie 2023

Academia Română Filiala Timișoara



[www.americanromanianacademy.org](http://www.americanromanianacademy.org)





**ORGANIZED by:** American Romanian Academy of Arts and Sciences with the support of the following organizations:

- Romanian Academy - Timisoara Branch
- Technical Sciences Academy - Timisoara Branch
- Romanian Academy of Medical Sciences
- Academy of Romanian Scientists

**HOSTED By:** Romanian Academy - Timisoara Branch

**CONGRESS CHAIRS**

Prof. univ.dr. habil. Veronica Laura DEMENESCU  
Aurel Vlaicu University, Arad

**CONGRESS Co-CHAIRS**

Prof.univ.dr.habil. Stela DRAGULIN  
Universitatea Transilvania, Brasov

**HONORARY CHAIR**

Prof. univ.dr.habil. Ruxandra VIDU  
University of California, Davis, USA  
ARA President

**PUBLICATION CHAIR**

Prof. Veronica Demenescu, Arad  
Nicolae N. NEGULESCU, Writer, Craiova  
Prof. Dumitru TODOROI, ASEM, Chisinau

**FINANCE CHAIR:**

Prof. univ.dr.Lidia Favier  
ARA Treasurer

**STUDENT TRACK CHAIR:**

Ms. Ioana Onica, MLIS

**LOCAL ORGANIZING COMMITTEE**

Prof.dr.ing.ec. Adrian BANES, CS I  
Academia Romana, Filiala Timisoara  
Dr.ing.ec. Miroslav RAICOV, CS III  
Academia Romana Filiala Timisoara  
Conf. univ. dr. Manuela Dora ORBOI  
Universitatea de Științele Vieții "Regele Mihai I" - Timișoara  
Conf. univ. dr. Ion Alexandru ARDELEANU  
Universitatea Aurel Vlaicu din Arad  
Lect. univ. dr. Iulia ROMAN  
Universitatea Aurel Vlaicu din Arad  
Asist. CDA Ciprian Catalin ROMAN  
Universitatea Aurel Vlaicu din Arad  
Prof. Lavinia GRUESCU  
Prof. Bianka BLAJ

**INTERNATIONAL ADVISORY COMMITTEE**

Prof. Ruxandra VIDU  
University of California, Davis, USA  
ARA President  
Prof. Ildiko PETER  
University of Medicine, Pharmacy, Science and Technology „George Emil Palade”, Tirgu Mures, Romania  
ARA Vice-president  
Professor Stela DRAGULIN  
Transylvania University of Brasov  
ARA Director for Romania  
Prof. Lidia FAVIER  
Ecole Nationale Supérieure de Chimie de Rennes, France  
ARA Treasurer  
Professor Dumitru TODOROI  
Academy of Economic Studies  
ARA Director Republic of Moldova,  
Editor-in-chief ARA Journal of Sciences

# LUNI 23 OCTOMBRIE 2023

Academia Romana – Filiala Timisoara

9:00 – 10:00

**ÎNREGISTRAREA PARTICIPANȚILOR**

10:00

**DESCHIDERA LUCRARILOR**

## CUVÂNT DE DESCHIDERE

**Prof. univ. dr. habil. Ruxandra VIDU**

Președinte ARA

**Acad. Dan DUBINĂ**

Președinte Academia Română – Filiala Timișoara

**Prof. univ. dr. Gheorghe LUCACI**

Președinte Academia de Științe Tehnice din Romania - Filiala Timișoara

**Cuvantul Organizatorilor**

Prof. univ.dr. habil. Veronica Laura DEMENESCU

Prof.dr.ing.ec. Adrian BANES



## MOMENT ARTISTIC

**Corul Academica**

al Facultății de Științe Umaniste și Sociale

Universitatea *Aurel Vlaicu* din Arad

Dirijor: Lect. univ. dr. Iulia ROMAN

**Lect. univ. dr. CDA Daniel ZAH**  
Universitatea Aurel Vlaicu din Arad  
Liceul de Artă *Ion Vidu* din Timișoara

**Acompaniază la pian**  
**Lect. univ. dr. Silvana Ana CÎRDU**  
Universitatea de Vest din Timișoara

**Alice BĂLAN – pian**  
Clasa Lect. univ. dr. Iulia ROMAN  
Universitatea *Aurel Vlaicu* din Arad

**Lărmioara COVACIU – voce**  
Pregătirea muzicală Asist. Univ. drd. Ciprian ROMAN  
Universitatea *Aurel Vlaicu* din Arad



**10:45-11:00 (coffee break, group photo)**



**SECȚIUNEA 1**  
**Session Chair: Ruxandra Vidu**

**11:00 – 11:30**

***Artificial Intelligence in Medicine – beyond the Glamour***

**Keynote Speaker - Prof. univ. dr. Gorge Mihalas** - Romanian Academy of Medical Sciences, Timisoara Branch/Victor Babes University of Medicine and Pharmacy, Timisoara/Vasile Goldis Western University, Arad

**11:30 – 12:00**

***Artificial Intelligence and the Humanities: Pathways and Challenges***

**Keynote Speaker - Dr. Simona Livescu** - Romanian American University,  
Department of Foreign Languages

**12:00 – 12:20**

**Designing of Microfluidic Optical and Electrochemical Devices used as (Bio)Sensors for Heavy Metal Ions Detections**

**Invited Speaker - Ileana Nicoleta Popescu<sup>1</sup>**, Badriyah Alhalaili<sup>2</sup>, Ruxandra Vidu<sup>3,4</sup>

<sup>1</sup>Faculty of Materials Engineering and Mechanics, Valahia University of Targoviste,

<sup>2</sup>Nanotechnology and Advanced Materials Program, Kuwait Institute for Scientific Research, Kuwait

<sup>3</sup>Faculty of Materials Science and Engineering, University POLITEHNICA of

Bucharest, <sup>4</sup>Department of El. and Comp. Eng., University of California Davis, USA

**12:20 – 12:40**

**Ciguatera Fish Poisoning: why is it itchy and painful?**

**Invited Speaker** - Raphaelle Le Garrec<sup>2</sup>, Mirela Iodi Carstens<sup>1</sup>, Taylor Follansbee<sup>1</sup>,  
Laurent. Misery<sup>2</sup>, **E. Carstens<sup>1</sup>**

<sup>1</sup>Dept. of Neurobiology, Physiology & Behavior, Univ. of California, Davis USA

<sup>2</sup>Laboratoire interactions épithéliums-neurones (LIEN), Univ. of Brest France

**12:40 – 13:00**

***Launch of the "ARA Journal of Sciences", 1/2018, 2/2019, 3/2020, 4/2021, 5/2022, 6/2023***

Dumitru Todoroi<sup>1</sup>, Ruxandra Vidu<sup>2</sup>

<sup>1</sup>ARA, ASEM, Academia de studii economice din Moldova

<sup>2</sup>President of American Romanian Academy of Arts and Sciences

**13:00 – 14:30**



**SECȚIUNEA 2**

**14:30 – 15:00**

***Current challenges for energy supply systems due to transition from fossil fuels to renewable energy sources***

**Keynote Speaker - Prof. univ. dr. Ioan David**, Universitatea Politehnica,  
Timișoara, Aleea Spiru Haret 1A, 300022, Romania, University of Applied Sciences,  
Gissen, Bismarkstrasse 4, 35390, Germany

**15:00 – 15:15**

**25 years of accredited research in the field of air quality control**

**Ioana Ionel, Delia Gabriela Calinoiu, Daniel Bisorca, Mihai Ramon Balogh,**  
Politehnica University Timisoara

### **SECȚIUNEA 3**

**Session Chairs: Ruxandra Vidu, Lucian Dindirica**

**15:15– 16:30**

***Inauguration of The Museum of the Romanian Book and Exile. Video Exhibition***

Dr. Lucian DINDIRICĂ, Cristina GELEP, Dr. Ruxandra VIDU

University of Craiova & Institute of Romanian Exile / Institute of Romanian Exile

***Poster Exhibition - Monica Lovinescu. Unpublished Acts and Documents in the Collections of The Museum of the Romanian Book and Exile***

Dr. Lucian DINDIRICĂ, Cristina GELEP

University of Craiova & Institute of Romanian Exile / Institute of Romanian Exile

***Monica Lovinescu - 100 Years Since Birth***

Dr. Lucian DINDIRICĂ

University of Craiova & Institute of Romanian Exile

***Monica Lovinescu - An Essential Biobibliography***

Matilda BREAZU, Laviniu LĂPĂDAT

Research Scientist / Research Scientist & Assistant Professor

Institute of Romanian Exile / Institute of Romanian Exile & University of Craiova

***Monica Lovinescu. Cultural Connections and Interferences in Exile***

Rodica-Nicoleta CONSTANDA

Institute of Romanian Exile & University of Craiova

***Monica Lovinescu in the Collections of the Museum of the Romanian Book and Exile, Craiova***

Mihaela CĂLINESCU, Elena GONGONEA

Institute of Romanian Exile / Institute of Romanian Exile & University of Craiova

***La Apa Vavilonului. Exile Memory as a Contemporary Phenomenon***

Maria-Cristina GELEP

Institute of Romanian Exile

***Urban Anthropology***

Dr. Lucian DINDIRICĂ

University of Craiova & Institute of Romanian Exile

16:30 – 16:45



16:45 – 17:00

***Două feluri de a aborda infinitul... la Brâncuși și la Șerban Popa***

Corneliu Șerban POPA

Visual artist - Muzeul Exilului Romanesc

17:00 – 17:15

***Lucian Blaga, „fratele mai mic” al lui Mihai Eminescu***

Conf. univ. dr. Anca Sîrghie

Lucian Blaga University – Sibiu, România

## **MARȚI 24 OCTOMBRIE 2023**

### **SECȚIUNEA 4**

**Session Chair: Dumitru Todoroi**

10:00-10:30

***Aspects of rural development in Țara Hațegului, România***

**Prof. dr. ing. ec. CS I Adrian BĂNEȘ**, Miroslav RAICOV, Andreea FEHER, Păun Ion OTIMAN, Romanian Academy – Timișoara Branch

10:30 – 10:45

***The Prospects for the Accession of Moldova to the European Union Provide for the Implementation of Two Concepts of the European Integration Process at the National Level***

**Mămăligă Ilie**, Associate Professor Doctor of Law

10:45 – 11:00

***Fabricația aditivă – tehnologia secolului XXI***

**DULGHERU Valeriu**, prof. univ., dr. hab., m. c. ARA, UTM

Stanislav SLOBODEANIUC, Universitatea tehnică din Moldova

11:00 – 11:15

***Deglobalizarea actuală inversare a hiperglobalizării***

**CHISTRUGA Boris**, prof: univ., dr. hab., m. c. ARA, ASEM, Academia de studii economice din Moldova

**11:15 – 11:30**

***Bilateral international collaboration of older adults***

COBAN Marina, conf. univ., dr., m. c. ARA, ASEM

Prof. univ. dr. habil. Dumitru TODOROI, ASEM

Academia de studii economice din Moldova

**11:30 – 11:45**

***Incident of indirect taxes on the economic growth of the Republic of Moldova***

BULGAC Corina, conf. univ, dr, ASEM

Academia de studii economice din Moldova

**11:45 – 12:00**

***Fragmentarea teritorială în Republica Moldova: probleme și provocări***

ROȘCOVAN Mihai, conf. univ., dr., BCI, USM/RUSU Andrei, PhD Student, USM

Universitatea de stat din Moldova

**12:00 – 12:15**

***Problemele fundamentale ale dezvoltării sistemelor informatice integrate și soluționarea lor conceptuală***

LEAHU Tudor, conf. univ., dr., m. c. ARA, ULIM

Universitatea liberă internațională din Moldova

**12:15 – 14:00**



## **SECȚIUNEA 5**

**Session Chair: Nicoleta Ileana Popescu**

**14:00 – 14:30**

***Romanian-American co-authorship of the Web of Science indexed publications***

**Keynote Speaker - Dr. Victor VELTER**

**UEFISCDI**

**14:30 – 14:45**

***Identificarea arhetipului Umbra prin muzică, factor de dezvoltare personală***

Conf. univ. dr. Ioana Luminița GOREA

Universitatea din Oradea



**14:45 – 15:00**

***Regional innovative schemes of the educational capacity building for the smart specialization in the human settlements in the Republic of Moldova***

TUTUNARU Sergiu, conf. univ., dr., ASEM, A. Babin, I. Covalenco  
Academia de studii economice din Moldova

**15:00 – 15:15**

***Product "SENIOR Association"***

Dumitru TODOROI, Univ. prof., Dr. hab., M. c. ARA, President of the Association  
„AESM Seniors”, AESM

**15:15 - 15:45**

***Growth of low-cost nanomaterials for sustainable energy, cleaning waters and bacteria annihilation***

**Keynote Speaker - Najoua Kamoun Turki**, Physics Condensed Matter  
Laboratory, Faculty of Science Tunis, Univ. of Tunis El Manar, Tunisia

***Effect of Graphene doping concentration on the physical properties of ZnFe<sub>2</sub>O<sub>4</sub> sprayed thin films***

Fatma Ezzahra Dhif, A., Neila Jebbari, B., Alberto Vomiero, C., Elisa Moretti, D., and  
**Najoua Kamoun Turki**

Physics Condensed Matter Laboratory, Faculty of Science Tunis, Univ. of Tunis El  
Manar, Tunisia

***Effect of different dopant elements on physical properties of CuO-ZnO coupled oxide thin films***

Moez Hajji, Neila Jebbari, Mejda Ajili, Antonio Garcia-Loureiro, **Najoua Turki  
Kamoun**

Physics Condensed Matter Laboratory, Faculty of Science Tunis, Univ. of Tunis El  
Manar, Tunisia

***Improved photocatalytic activity of manganese dioxide thin films prepared by spray pyrolysis technique***

**Invited Speaker - Wafa Naffouti** and Najoua Turki-Kamoun

Laboratoire de Physique de la Matière Condensée, Faculté des Sciences de Tunis,  
Université de Tunis El Manar, Tunisia.

***Silver-Doped Molybdenum Oxide: A Promising Material for Moisture Detection and Bacterial Annihilation***

**Invited Speaker - Olfa Kamoun**

Faculty of Science Tunis, Univ. of Tunis Elmanar, Tunisia

15.45 – 16.00



16.00 – 18.00

## ADUNARE GENERALĂ ARA



19.00 – 21.00 ARA Banquet



**RESTAURANT LLOYD TIMIȘOARA**

# MIERCURI 25 OCTOMBRIE 2023

## SECȚIUNEA 6

**10:00 – 11:30**

**George ROCA – șezătoare literară**

**Prezentari de carte, discutii**

**Participa: Rodica Elena Lupu, Elisabeta Iosif**

## SECȚIUNEA 7

**Session Chair: Ruxandra Vidu, Dumitru Todoroi, Nicoleta Ileana Popescu**

**11:30 – POSTER Presentation**

***Legislația de monitorizare a continuității activităților pentru vârstnici***

BULGAC Ivan, BULGAC Gh.,

Consultant: TODOROI Dmitru

***Muzica și Bunăstarea psihologică a vârstnicilor***

Maria BELINSKI, Tinca BELINSKI, Dumitru MICUȘA,

***Synthesis, characterization of TiO<sub>2</sub> mesoporous catalysts and their effectiveness for the removal of clofibric acid in aqueous solutions***

Lidia Favier, Amalia Maria Sescu, Doina Lutic, Véronique Alonzo, Ruxandra Vidu, Maria Harja

***Effect of doping concentration on the physical properties of undoped and Ti-doped iron oxide thin films for environmental application***

Asma Romdhani, Rihab Ben Ayed, Mejda Ajili, Najoua Kamoun Turki

***Effect of the Variation in Graphene Doping Concentration on Physical Properties of (CuO+SnO<sub>2</sub>:F) Mixed Oxide Sprayed Thin Films for Ozone Gas Detection***

Ghofrane Charrada, Neila Jebbari, Mejda Ajili, Sandrine Bernardini and Najoua Kamoun Turki

***Evaluation of Predictive Models for Efficient Gasification of Waste Oils***

Maria-Oana Agavriloaie, Iulian Cucos, Lidia Favier, Maria Harja

***A Comparative Analysis of Fuels for Thermal Engines: Examination of Performance, Efficiency, and Environmental Impacts***

Cosmin Suciu, Ioana Ionel

***Implementation of recycling technologies for used engine oil at European scale: a comprehensive analysis***

ARMIONI Diana Miruna, IONEL Ioana, RAȚIU Sorin Aurel

***Particulate Matter concentrations near a round-about with high vehicular traffic in a residential area***

MUSTATA Dan-Marius, IONEL Ioana

***Research concerning air pollution generated by road vehicles***

Rares Mihaita POPA, Ioana IONEL

***Cranial Implant with Osteointegrating Structures and Functional Coatings.***

MATES Ileana Mariana

**12:00**

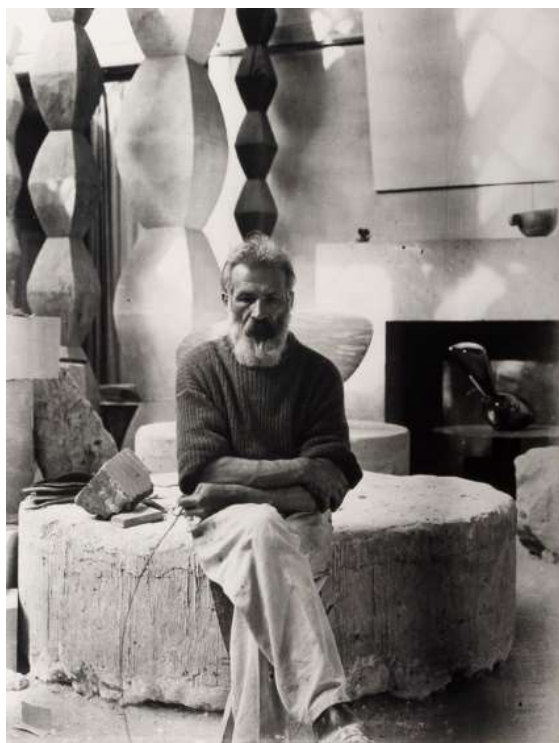
**Închiderea lucrărilor**

**13.00 - 14.30**



**14.30**

**Vizitarea Expoziției BRÂNCUȘI – Surse românești și perspective universale**  
**MUZEUL NAȚIONAL DE ARTĂ TIMIȘOARA <https://brancusi-2023.info/>**



**BRÂNCUȘI**

