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CO-ORGANIZERS



International Workshop of Electromagnetic
Compatibility

18-20 September 2024

Nicolae Balcescu Land Forces Academy of
Sibiu, Romania



CEM 2024 HYBRID EVENT

18 - 20 SEPTEMBER
SIBIU, ROMANIA

THE 14TH INTERNATIONAL
WORKSHOP OF ELECTROMAGNETIC
COMPATIBILITY

&

20TH YEARS ANNIVERSARY OF
THE FIRST EMC WORKSHOP
EDITION

SPONSORS



ROMANIAN COMMERCIAL BANK



ELECTRIC PRODUCTS
CERTIFICATION INDEPENDENT
BODY ICPE S.R.L.



MCL CONSULT
TELECOM S.R.L.



ROMTEK ELECTRONICS S.R.L.



COMTEST S.R.L.



MARCTEL S.I.T. S.R.L.

EXHIBITORS



ROHDE & SCHWARZ



KEYTEK INNOVATION S.R.L.

18-20 SEPTEMBER 2024

N I C O L A E B A L C E S C U L A N D F O R C E S A C A D E M Y O F S I B I U
R E V O L U T I E I S T R E E T , N O . 3 - 5 , S I B I U , S B - 5 5 0 1 7 0 , R O M A N I A

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WHO WE ARE

The **National Institute for Research and Development in Electrical Engineering ICPE-CA Bucharest** was founded in 2001 as a joint stock company and reorganized in 2004 under Government Decision no. 1282, published in Official Gazette no. 775/24.08.04. It is recognized as one of the most competitive research and development entities in Romania.

The institute promotes and conducts applied research activities on a national and international scale within the realm of electrical engineering. It aims to advance knowledge for the benefit of companies, as well as public and private institutions. By taking over ICEMENERG, the institute aims to consolidate a new strategic component at the level of its identity and activity, dedicated to energy engineering, expanding the key role it plays in Romanian research and the national innovation ecosystem.

INCDIE ICPE-CA has publishing options: "Electrotehnica, Electronica, Automatica (EEA)", [Electrical Engineering, Electronics, Automation] scientific journal (ELECTRA Publishing House).



WHAT IS CEM WORKSHOP ABOUT

1

The **National Institute for Research and Development in Electrical Engineering ICPE-CA Bucharest** has a long tradition of organizing the electromagnetic Compatibility Workshop. It has been organized since 2004 and became unique in Romania through scientific and technological topics.

2

Also, this started as an annual itinerant event and since 2010 the workshop has been organized every two years as a response to the current imperatives of society aimed to reveal new findings in the field of electromagnetic compatibility.

3

The current scientific event reached its 14th edition and marks the 20th anniversary of the CEM International Workshop. It is designed to be a moment of assessment and opening of new projects for the future. Proudly of the previous successful editions, we strive to address and promote the newest topics and challenges in the EMC domain.

PREVIOUS EDITIONS OF THE CEM WORKSHOP

CEM 2022 "STEFAN CEL MARE" UNIVERSITY OF SUCEAVA

CEM 2020 Bucharest on-line

CEM 2018 "VALAHIA" UNIVERSITY OF TARGOVISTE

CEM 2016 UNIVERSITY OF CRAIOVA

CEM 2014 POLITEHNICA UNIVERSITY OF TIMISOARA

CEM 2012 "LUCIAN BLAGA" UNIVERSITY OF SIBIU

CEM 2010 ORDOHEIU SECUIESC CITY, NEAR UNIVERSITY
CENTERS FROM TARGU MURES

CEM 2009 "MIRCEA CEL BATRAN"
NAVAL ACADEMY OF CONTANTA

CEM 2008 TRANSILVANIA UNIVERSITY OF BRASOV
(PREDEAL)

CEM 2008 THE 2nd WORKSHOP:
"BIO-ELECTROMAGNETICCOMPATIBILITY:
METHODS OF CHARACTERIZATION AND
SHIELDING MATERIALS", CURTEA DE ARGES

CEM 2007 NORTHERN UNIVERSITY OF BAIA MARE

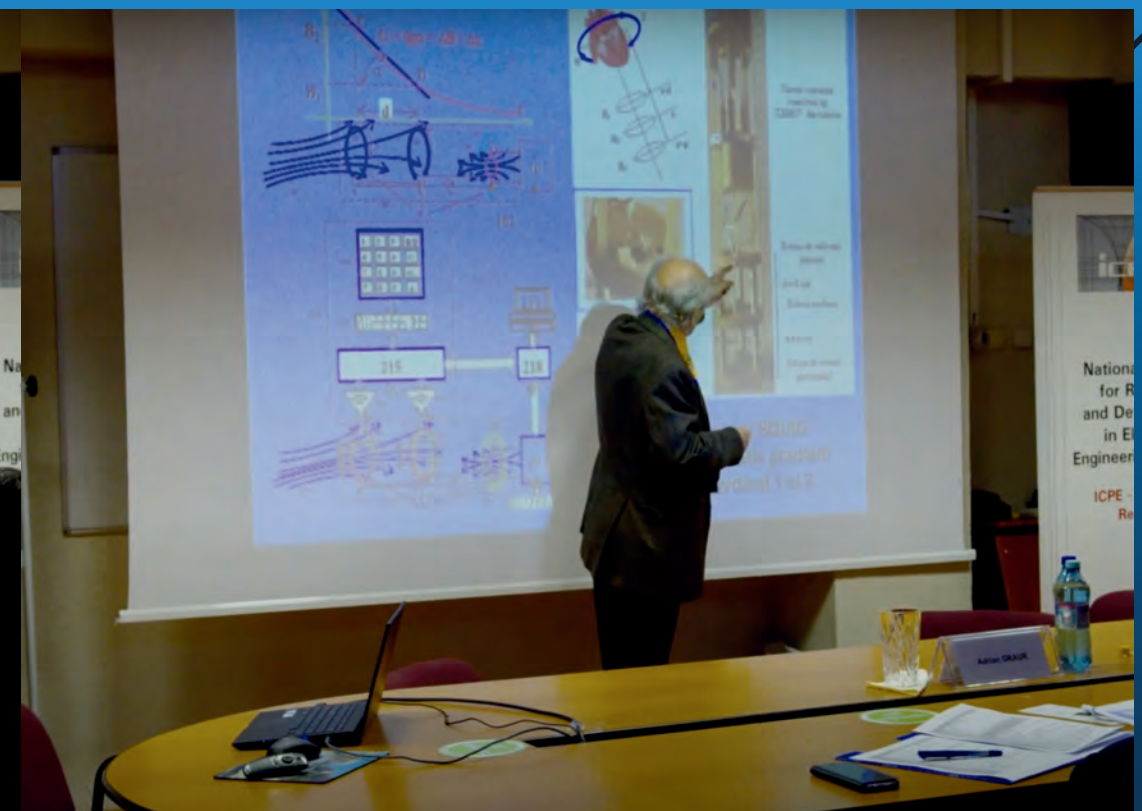
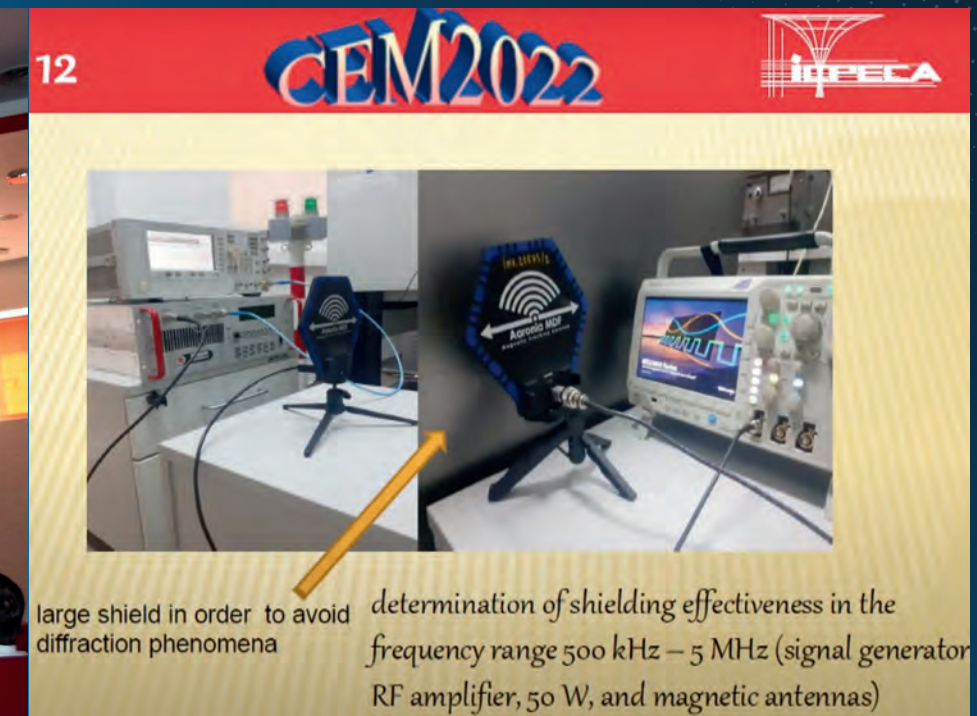
CEM 2007 THE FIRST WORKSHOP:
"BIO-ELECTROMAGNETIC COMPATIBILITY:
METHODS OF CHARACTERIZATION AND
SHIELDING MATERIALS", TIMISOARA

CEM 2006 "GHEORGHE ASACHI" TECHNICAL
UNIVERSITY OF IASI

CEM 2005 TECHNICAL UNIVERSITY OF CLUJ-NAPOCA

CEM 2004 ROMEXPO COMPLEX, BUCHAREST

Previous Editions of the CEM WORKSHOP



WHY YOU SHOULD JOIN

CEM 2024 is an exciting and practical event where you can interact with local and international talent from academia, R&D and explore new trends that will keep you up to date with the latest discoveries in this field. This event aims to explore new research directions, promote valuable outcomes, as well as establish partnerships for participation in European research projects.

Three intensive workshop days will catalyze exponential growth and new solutions. The following research topics and other related issues on EMC will be addressed:

- electromagnetic compatibility in the fields of electronics, communication systems, transportation systems, industrial systems
- materials for electromagnetic compatibility
- electromagnetic shielding and solutions
- wireless power transfer
- electricity quality and consumption efficiency
- electronic packaging
- the effects of human exposure to electromagnetic fields
- bio-electromagnetic compatibility
- 5G technology and health
- issues related to EMC standardization

SCIENTIFIC COMMITTEE

The Scientific Committee (SC)
is a multidisciplinary team of
experts that will provide
information and advice on
scientific and technological
matters related to recent topics
in EMC.

READ MORE



SCIENTIFIC COMMITTEE

GENERAL CHAIR

Alexandru Mihail MOREGA
Romania

CO - CHAIRS

Ghita BARSAN
Romania

Adrian GRAUR
Romania

Andrei MARINESCU
Romania

Simona MICLAUS
Romania

Eros Alexandru PATROI
Romania

COMMITTEE MEMBERS

Mihai BADIC
Romania

Paul BECHET
Romania

Philippe BESNIER
France

Eugen COCA
Romania

Vasile DOBREF
Romania

Elena HELEREA
Romania

Jolanta KARPOWICZ
Poland

Mihaela MOREGA
Romania

Makoto NAGATA
Japan

COMMITTEE MEMBERS

Petre Marian NICOLAE
Romania

Mihai Octavian POPESCU
Romania

Emanuel RADOI
France

Georgiana ROSU
Romania

Jack ROWLEY
UK

Gheorghe SAMOILESCU
Romania

Lilia SAVA
Republic of Moldova

ORGANIZING COMMITTEE

The Organizing Committee (OC),
which comprises the
organizational departments of the
workshop will provide technical
support to the participants.

READ MORE



ORGANIZING COMMITTEE

Adela BARA

INCDIE ICPE-CA, Bucharest, Romania

Lucian CRETU

INCDIE ICPE-CA, Bucharest, Romania

Laura GEAMBAZU

INCDIE ICPE-CA, Bucharest, Romania

Ilie GLIGOREA

AFT, Sibiu, Romania

Gabriela IOSIF

INCDIE ICPE-CA, Bucharest, Romania

Ciprian MANEA

INCDIE ICPE-CA, Bucharest, Romania

Cristian MORARI

INCDIE ICPE-CA, Bucharest, Romania

Nicolae MORO

AFT, Sibiu, Romania

Lorena MORUZ

INCDIE ICPE-CA, Bucharest, Romania

Iulia IRINA

INCDIE ICPE-CA, Bucharest, Romania

Gabriela OBREJA

INCDIE ICPE-CA, Bucharest, Romania

Ciprian ONICA

INCDIE ICPE-CA, Bucharest, Romania

Mircea POPESCU

INCDIE ICPE-CA, Bucharest, Romania

Gheorghe PRUNESCU

AFT, Sibiu, Romania

Annamaria SARBU

AFT, Sibiu, Romania

Emil SORECAU

AFT, Sibiu, Romania

Mirela SORECAU

AFT, Sibiu, Romania

Ioan VIRCA

AFT, SIBIU, Romania

PAPERS PRESENTATION AND AWARDS OF THE CEM 2024

Awards and prizes will be granted
to the presenters of the best oral
presentation at the **CEM 2024
Workshop**.

READ MORE



PAPERS PRESENTATION AND AWARDS OF THE CEM 2024

1

The selected full papers are planned to be published in the scientific Journal Electrotehnica, Electronica, Automatica (EEA) (<http://eea-journal.ro>), print ISSN: 1582-5175, online ISSN: 2392-828X).

2

The accepted contributions will be provided within CEM 2024 Programme and Book of Abstracts.

3

Criteria for the Overall Best Presentation

The evaluation pannel is interested in two aspects: the research itself (i.e. as it needs to have a clear connection to electromagnetic compatibility for system engineers) and the presentation of it. In addition, presentations are judged on:

- innovation in topic and approach
- effective organization and presentation fits the time limit (12-15 minutes)
- effective verbal/nonverbal communication
- provided supportive evidence and results

- creative, original and compelling ideas
- effective use of case studies
- language is appropriate to the topic as well as concrete and specific
- the slides of the presentation have readable text
- research methods are summarized to support the results
- the speaker establishes his/her credibility to gain the audience attention
- clarity in the presentation
- correctly applying technical approaches

4

The decisions will be taken by the evaluation panel members of the event. The evaluation panel will be formed by members with academic and industrial expertise for that particular subject area.

All the winners will be presented with their awards during the official ceremony which will be held on the last day of the event.

PROGRAMME

WEDNESDAY, SEPTEMBER 18, 2024

VENUE NICOLAE BALCESCU LAND FORCES
ACADEMY OF SIBIU, SIBIU , Romania

13:00 - 15:00	ACCOMMODATION PRELIMINARY INFORMATION
15:00 - 17:00	REGISTRATION OF PARTICIPANTS
17:00 - 17:30	OPENING CEREMONY
17:30 - 18:30	VISIT THE CAMPUS OF THE NICOLAE BALCESCU LAND FORCES ACADEMY, SIBIU
18:30 - 19:00	POSTERS DISPLAY
20:00 - 22:00	WELCOME DINNER

THURSDAY, SEPTEMBER 19, 2024

HALL MARESAL PREZAN | HALL MARESAL
AVERESCU

09:00 - 10:30	INVITED LECTURES
10:30 - 10:45	COFFEE TEA BREAK
10:45 - 11:45	INVITED LECTURES INVITED LECTURES
11:45 - 12:15	ORAL PRESENTATIONS ORAL PRESENTATIONS
12:15 - 12:30	COFFEE / TEA BREAK
12:30 - 13:00	ORAL PRESENTATIONS
13:00 - 14:00	LUNCH
HALL MARESAL PREZAN	
14:00 - 15:00	INVITED LECTURES
15:00 - 15:30	ORAL PRESENTATIONS
15:30 - 15:45	COFFEE / TEA BREAK
15:45 - 16:45	INVITED LECTURES
16:45 - 18:15	ORAL PRESENTATIONS
20:00 - 22:00	DINNER

FRIDAY, SEPTEMBER 20, 2024

HALL MARESAL PREZAN

09:00 - 10:00	BRIEF PRESENTATION OF SPONSORS & EXHIBITORS
10:00 - 11:15	POSTERS SESSION
11:15 - 11:30	COFFEE TEA BREAK
12:00 - 18:00	SOCIAL PROGRAMME (TOUR WITH VISIT TO ALBA - IULIA CITY) LUNCH IN ALBA - IULIA CITY
19:00 - 19:30	AWARDING CEREMONY
19:30 - 20:00	CLOSING REMARKS
20:00 - 22:00	OFFICIAL DINNER

SATURDAY, SEPTEMBER 21, 2024

09:00	DEPARTURE OF PARTICIPANTS
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WORKSHOP VENUE & TRAVEL

Country: Romania

City: Sibiu

Location: “Nicolae Balcescu” Land Forces Academy of Sibiu

Address: Revolutiei Street, No. 3-5, Sibiu, SB, 550170, Romania

Sibiu is located in the central region of Romania amid the picturesque Transylvania. This medieval town has impressive Germanic architecture, a legacy inherited from the 12th-century Saxon settlers.

Around the city, there are remnants of medieval walls and towers, such as the Council Tower dating back to the 13th century.

In the upper town there is the Brukenthal Palace houses, the Brukenthal National Museum and the European Art Gallery.

The nearby Evangelical Cathedral features gravestones embedded in its walls.



Credits: Canva, Free AI Image Generator



Credits: Canva, Free AI Image Generator

WORKSHOP VENUE & TRAVEL



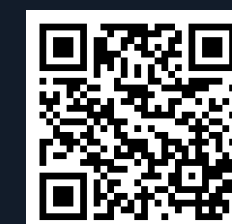
Credits: Canva, Free AI Image Generator



Credits: Canva, Free AI Image Generator



Credits: Canva, Free AI Image Generator





INCDIE ICPE-CA BUCUREȘTI

Phone: +40-21-346.72.31

Website: <https://www.icpe-ca.ro/cem-2024/>

Email: cem2024@icpe-ca.ro

Address: 313 Splaiul Unirii, District 3, Bucharest –
030138, Romania

INCDIE ICPE-CA BUCURESTI

The image features two overlapping blue parallelogram shapes on the right side, creating a sense of depth and movement. The top shape is a lighter shade of blue, while the bottom shape is a darker shade, both pointing towards the right.