

## Information

### Scope

The International Society for Electromagnetic Aquametry (ISEMA) is an informal association of scientists and engineers from academia, industry, and government who are bound together by their common interest in the theory, technology, and practical application of electromagnetic measurements of water content in materials.

### City

The 12th International Conference on Electromagnetic Wave Interaction with Water and Moist Substances – ISEMA 2018 will take place in Lublin, Poland, from 4 to 7 June 2018 and it is organized this time by the Institute of Agrophysics, Polish Academy of Sciences. Lublin is the largest city in Eastern Poland, located on the beautifully landscaped grounds of the Lublin Upland. The city impresses with its more than 700-year history. The well maintained old town creates a unique and magical atmosphere of the city, which crosses cultures and religions of many nations. The Lublin Airport (IATA: LUZ, ICAO:EPLB) is placed in Świdnik, about 20 km from the centre of Lublin.

### Conference venue

The conference will take place in Lublin (Poland) at the Hotel Mercure Lublin Centrum\*\*\* which is located in the city centre. Airport shuttle is available.

Hotel Mercure Lublin Centrum\*\*\*  
Raclawickie 12  
20-037 Lublin, Poland

We recommend also this hotel as a place to stay during the conference.

## Contact

E-mail: [isema2018@ipan.lublin.pl](mailto:isema2018@ipan.lublin.pl)  
Phone: +48 (81) 744 50 61 ext. 199  
Fax: +48 (81) 744 50 67

[www.isema2018.org](http://www.isema2018.org)



**12th International Conference  
on Electromagnetic Wave Interaction  
with Water and Moist Substances**

**Lublin, Poland, June 4 - 7, 2018**

*Chair of ISEMA 2018 Organizing Committee  
prof. Wojciech Skierucha*



**FIRST ANNOUNCEMENT  
FIRST CALL FOR PAPERS**

## Scientific Committee

M. Bittelli, Italy	M. Paluch, Poland
F. Daschner, Germany	J. Sachs, Germany
R. Dudley, UK	W. Skierucha, Poland
Y. Feldman, Israel	C. Sławiński, Poland
S. Friedman, Israel	H. Sobczuk, Poland
Ch. Huebner, Germany	P. Sabouroux, France
S. Jones, USA	A. Scheuermann, Australia
U. Kaatze, Germany	S. Trabelsi, USA
J. Krupka, Poland	J. Ulański, Poland
T. Lasri, France	N. Wagner, Germany
E. Nyfors, Norway	I. Woodhead, New Zeland
R. Olmi, Italy	S. Yagihara, Japan
K. Orzechowski, Poland	A. Zdunek, Poland

## Organizing Committee

### Chair

Wojciech Skierucha - IA PAS, Lublin, Poland

### Co-chairs

Andrzej Wilczek - IA PAS, Lublin, Poland  
Arkadiusz Lewandowski - WUT, Warsaw, Poland  
Agnieszka Szyplowska - IA PAS, Lublin, Poland  
Marcin Kafarski - IA PAS, Lublin, Poland  
Agata Pacek-Bieniek - IA PAS, Lublin, Poland  
Jarosław Zdunek - IA PAS, Lublin, Poland

## Preliminary Program

Monday, June 4: Registration and welcome coffee, opening session, oral and poster sessions.

Tuesday, June 5: Oral and poster sessions, trip in Kazimierz, conference dinner.

Wednesday, June 6: Oral and poster sessions, trip in Lublin.

Thursday, June 7: Oral and posters sessions, closing of the conference.

## Conference Topics

The conference will address all problems relevant to both physical concepts and technological aspects of electromagnetic measurement techniques for determining the amount of water in moist substances, and the electromagnetic properties of materials. The conference will concentrate on, but is not limited to the following subjects:

- ▶ Electromagnetic determination of physical properties of materials and standardization of measuring methods.
- ▶ Moisture content determination and monitoring in soil, snow, agricultural materials, waste disposals and other nonhomogeneous materials.
- ▶ Progress in measurement instrumentation and methods of broadband dielectric spectroscopy.
- ▶ Electromagnetic sensors in time- and frequency-domain for moisture content determination.
- ▶ Theory and applications of electromagnetic mixing rules and formulas.
- ▶ Dielectric relaxation properties of water in heterogeneous materials, including biological substances and tissues.
- ▶ Applications of broadband dielectric spectroscopy in precision agriculture, civil engineering, industry, etc.
- ▶ Remote sensing for Earth's water monitoring.
- ▶ Computational methods of electromagnetic wave propagation in dispersive and lossy dielectrics.
- ▶ Integrated techniques using RF and/or microwave dielectric measurements with other methods such as impedance spectroscopy, THz spectroscopy, Raman spectroscopy, infrared spectroscopy, NMR, etc.

## Submission Information

Papers should describe original works on topics related to the interaction of EM fields with material containing water. The submitted abstract must be written in English, and it should describe the research with a detail sufficient to allow the Scientific Committee to decide about its acceptance.

### Important dates

Start of the registration process:  
September 15th, 2017 (see the website).

Deadline for 3-page papers:  
December 31st, 2017.

Deadline for final accepted papers:  
February 28th, 2018.

Deadline for early bird registration:  
April 30th, 2018.

### Abstract and paper preparation

Instructions on preparing the abstract and the final paper will be available at the conference website.

### Conference fees

Please visit the conference website  
[www.isema2018.org](http://www.isema2018.org)

## Exhibition

Manufacturers of dielectric and electromagnetic instrumentation, moisture measurement devices, RF- and microwave sensors related to above listed topics and other interested organizations are invited for a technical and scientific exhibition of their products and activities.

