

Registration fee before July 31th, 2026:

- 200 € per person for regular attendants
- 150 € per person for Ph.D. candidates and other students

Registration fee after July 31th, 2026:

- 250 € per person for regular attendants
- 200 € per person for Ph.D. candidates and other students

Deadline for the submission of abstracts for posters:

- July 31th, 2026.

Contact and Registration:

IR-EMPOWER@cae-zero carbon.de



After receiving your registration, we will send you a confirmation together with the invoice. The registration fee is non-negotiable and payable upon receipt of the invoice by bank transfer.

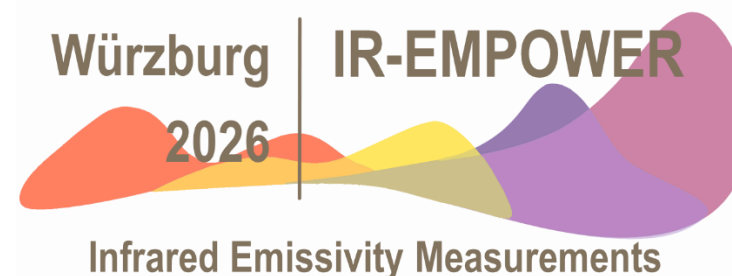
For cancellations before August 31th, 2026, we do not charge any cancellation fees, whereas after that date, the full registration fees will be due, even if you do not attend.

Sponsors:



IR-EMPOWER Workshop on Infrared Emissivity Measurements

September 28th and 29th 2026



A place to discuss infrared emissivity measurement in depth, including

- measurement techniques and protocols
- intercomparisons and databases
- modelling and simulations
- thermophysical metrology and applications

Location: Center for Applied Energy Research (CAE)

Magdalene-Schoch-Str. 3, 97074 Würzburg, Germany

Scientific Committee:

- | | |
|--------------------------|--------------------------|
| • Konstantinos Boboridis | JRC (Karlsruhe, Germany) |
| • Tomáš Králík | ISI (Brno, Czechia) |
| • Gabriel A. López | UPV/EHU (Bilbao, Spain) |
| • Jochen Manara | CAE (Würzburg, Germany) |
| • Christian Monte | PTB (Berlin, Germany) |
| • Benoît Rousseau | LTEn (Nantes, France) |
| • Olivier Rozenbaum | CEMHTI (Orleans, France) |
| • Elisa Sani | INO (Florence, Italy) |
| • Audrey Saum-Glaude | PROMES (Odeillo, France) |
| • Richard Zhang | UNT (Denton, USA) |

Program for the IR-EMPOWER 2026 Workshop: 1st Day

Monday, September 28th 2026

<i>Time</i>	<i>Title</i>	<i>Speaker</i>	<i>Institute City (Country)</i>	<i>Duration</i>
08:00	Registration			45 min
08:45	Opening of the Workshop			15 min
Session 1				100 min
09:00	Plenary 1: New Upgrades on the Emissivity Measurement Setup at UPV/EHU	Iñigo González de Arrieta	UPV/EHU Leioa (Spain)	50 min
09:50	The New Hemispherical Enclosure for Emissivity Measurements at PTB	Albert Adibekyan	PTB Berlin (Germany)	25 min
10:15	Measurement of Directional Spectral Emissivity at LNE	Guillaume Failleau	LNE Trappes (France)	25 min
10:40	Coffee Break			30 min
Session 2				100 min
11:10	High Temperature Emissivity Measurements of Oxide-Based Refractory Ceramics: From the Solid State to the Liquid State	Leire del Campo, Olivier Rozenbaum	CEMHTI-CNRS Orleans (France)	25 min
11:35	Benefits and Limitations of Multi-Wavelength Pyrometry	Konstantinos Boboridis	European Commission, JRC Karlsruhe (Germany)	25 min
12:00	Room Temperature Direct Emissivity Measurements of Spacecraft Thermal Materials	Richard Zhang	UNT Denton (USA)	25 min
12:25	Effect of Contaminants on the Thermal Absorptivity at Low Temperatures	Tomas Kralik	CAS Brno (Czechia)	25 min
12:50	Lunch			60 min

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Monday, September 28th 2026

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Session 3				100 min
13:50	Determination of Emissivity as Basis for Non-Contact Temperature Measurements in 3D-Metal-Printing	Jürgen Hartmann	THWS Schweinfurt (Germany)	25 min
14:15	Multi- and Hyperspectral Temperature Measurement in the Additive Manufacturing of Metals	Tina Walter	BAM Berlin (Germany)	25 min
14:40	Emissivity Measurement and its Application in Thermodiagnosics of Additive Manufacturing of Plastics and metals	Zdenek Vesely	ZCU Pilsen (Czechia)	25 min
15:05	Ready-to-Use Emissivity Measurement Solutions for Energy and Materials Research	Karolina Haupa	Bruker Ettlingen (Germany)	25 min
15:30	Coffee Break			30 min
Session 4: Lab Tour and Poster Session				100 min
16:00	Lab Tour			50 min
16:50	Poster Session			50 min
17:40	End of 1 st Day Technical Program			
20:00	Workshop Dinner			

Program for the IR-EMPOWER 2026 Workshop: 2nd Day

Tuesday, September 29th 2026

<i>Time</i>	<i>Title</i>	<i>Speaker</i>	<i>Institute City (Country)</i>	<i>Duration</i>
08:30	Registration			30 min
09:00	Start of 2 nd Day			-
Session 5				100 min
09:00	Plenary 2: Characterisation and Multi-Scale Modelling of the Spectral Emissivity of Silicon Carbide-Based Architected Ceramics for the Carbon-Free Production of Energy	Benoit Rousseau	LTeN-CNRS Nantes (France)	50 min
09:50	Modelling of Emissivity and Radiative Transfer in Semi-Transparent Materials	Jochen Manara	CAE Würzburg (Germany)	25 min
10:15	Comparison of Emittance Results from Different Labs	Elisa Sani	INO-CNR Florence (Italy)	25 min
10:40	Coffee Break			30 min
Session 6				100 min
11:10	Emissivity Measurements of Construction Materials with Portable Equipment	Pablo Alonso	CSIC Madrid (Spain)	25 min
11:35	Pulse Heating Technique for Measuring the Emissivity at Temperatures up to 3000 °C	Stephan Vidi	CAE Würzburg (Germany)	25 min
12:00	Directional-Hemispherical Reflectance Measurements up to 200 µm	Elena Kononogova	PTB Berlin (Germany)	25 min
12:25	Direct and indirect measurement of spectral emissivity and emittance from room temperature to 4000 °C	Hunter Schonfeld	UVA Charlottesville (USA)	25 min
12:50	Lunch			60 min

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Tuesday, September 29th 2026

<i>Time</i>	<i>Title</i>	<i>Speaker</i>	<i>Institute City (Country)</i>	<i>Duration</i>
Session 7				115 min
13:50	Catalogue of Thermo-Optical Properties of Construction Materials	Gloria Pérez	CSIC Madrid (Spain)	25 min
14:15	EKHI: the Open Database of Optical and Radiative Data	Jon Gabirondo-López	UPV/EHU Leioa (Spain)	25 min
14:40	Measuring Emittance in Ceramics from the Visible to the Mid-IR	Patrick E. Hopkins	UVA Charlottesville (USA)	25 min
15:00	Poster Session			45 min
15:45	Coffee Break			30 min
Session 8: Discussion				45 min
16:10	Round Table & Young Speaker Award			45 min
17:00	Closing			15 min
17:15	End of Workshop			