THIRD CIRCULAR: 15th ASA Conference

(united with 16th HITRAN Conference)



University of Reims Champagne-Ardenne - FRANCE

24th – 26th August 2022, REIMS

The fifteenth Atmospheric Spectroscopy Applications (ASA) workshop will take place **24th -26th August 2022**. The ASA workshop will be held at the conference center of the Best Western *Hôtel de la Paix* located at 9 rue Buirette in Reims, France. This meeting will be coupled to the biennial HITRAN conference.

The meeting will be organized around the following topics:

- Atmospheric measurements and observations
- Relevant new spectroscopic data and their analysis
- New trends in atmospheric spectroscopy techniques and gas analysis
- Status and evolution of the molecular databases
- Database archiving, access, and methodology
- Application of spectroscopy to studies of planetary atmospheres

The meeting will also provide the opportunity to organize special sessions on satellite measurements, climatology, planetology (atmospheres of planets, exoplanets), and astrophysics (hot media such as the atmospheres of brown dwarfs, etc.). Contributions to the meeting will be selected according to their relevance to the topics aforementioned, the HITRAN database and the high-temperature compilation (HITEMP).

A registration form is also accessible on the ASA website (<u>https://www.univ-reims.fr/asa-hitran/</u>) or directly at the following link:

$\underline{https://colloques.univ-reims.fr/colloque/inscriptionEtape1.jsp?locale=en\&semId=ASA-HITRAN-22 \ .$

The registration fee <u>before 15th July</u> ($320 \notin$ for permanent scientists and postdocs, $220 \notin$ for PhD students) will cover the cost of the sessions, proceedings, and refreshments. The registration also includes lunches and a banquet ticket for the participant. Accompanying persons should also register on the website (or at the following link <u>https://colloques.univ-reims.fr/colloque/inscriptionEtape1.jsp?locale=en&semId=ASA-ACCOMP-22</u>) if they want to attend the banquet (90 \notin).

The registration fee <u>after 15th July</u> will be 340 \in for permanent scientists and postdocs, 240 \in for PhD students. <u>The registration will be closed Tuesday 26th July 2022</u>.

All correspondence should be sent to the secretary of the local organizing committee: **Mme Sophie CHENAL**, **tel.** : +33 3 26 91 33 95, e-mail : <u>sophie.chenal@univ-reims.fr</u>.

List of invited speakers and the title of the presentation:

Natasha Batalha	Building access and community standards for
University of California Santa Cruz, CA, United States	opacity data at the
omversity of cultor mu suntu cruz, cA, omteu stutes	onset of next-generation atmosphere
	observations
Anna Fedorova	High-resolution infrared spectroscopy of Mars'
IKI, Space Research Institute RAS, Moscow, Russia	and Venus' atmospheres: recent results and
)- <u>F</u>	perspectives
Adam J. Fleisher	Accurate molecular line intensities :
National Institute of Standards and Technology,	Measurements, applications, and isotope ratios
Gaithersburg, United States	
Robert Gamache	Calculating Line shape Data for Spectroscopic
Department of Environmental, Earth, and Atmospheric	Databases
Sciences, University of Massachusetts Lowell, MA, US	
Marie-Aline Martin	An exotic use of the HITRAN database:
Institut ISMO, Orsay, France	Predicting laser lines for optically pumped
	terahertz molecular laser
Georg Mellau	
Physikalisch-Chemisches Institut, Justus-Liebig-	Experimentally-accurate complete molecular
Universität Giessen, Germany	line lists
Didier Mondelain	Line shape studies of CO ₂ and CH ₄ transitions
Laboratoire LIPhy, Grenoble, France	by CRDS for atmospheric sounding
Eli Mlawer	MT_CKD water vapor continuum: Recent
Atmospheric and Environmental Research, Lexington,	updates and planned future development
MA, United States	
Mitchell Spearrin	Molecular line mixing effects at high
University of California, Los Angeles (UCLA), CA, United	temperatures and pressures: laboratory studies
States	and sensing applications
Konstantin Vodopyanov	Broadband (3-5 μm) high-resolution (<50 kHz)
CREOL, The College of Optics & Photonics, University of	molecular spectroscopy with interleaved mid-
Central Florida, Orlando, FL, US	infrared dual frequency combs
Sergey Yurchenko	ExoMol data for exoplanet and other
Department of Physics & Astronomy, University College	atmospheres: progress and perspectives
London, UK	

Accommodations:

Participants must take care of their hotel reservations quite early since August is a highly touristic period (see e.g. <u>www.booking.com</u>). Some cheaper rooms are available at the CIS of Reims. They can be reserved at the following URL: <u>http://www.cis-reims.com/</u>.

Poster sessions:

The poster sessions will take place in front of the « Hôtel de la Paix » lecture hall. A vertical metallic grid (**1 m wide and 1.8 m high**) with two hooks will be available for each participant wishing to present their work. With this in mind, it will be preferable to have laminated posters with two holes at the top corners.

	Wednesday	Thursday	Friday
	Aug. 24, 2022	Aug. 25, 2022	Aug. 26, 2022
8:30 - 9:00	Welcome		
	Chairwoman : J. Buldyreva	Chairman : V. Boudon	Chairwoman : D. Viglaska
9:00 – 9:40	9:00 – 9:20 V. Tyuterev 9:20 – 9:40 A. Campargue	A. J. FLEISHER	D. MONDELAIN
9:40 - 10:00	M. Birk	P. Cacciani	O. Polyansky
10:00 - 10:20	Z. Reed	P. Cermak	F. Skinner
10:20 - 10:40	J. Hayden	A. Perrin	E. Pannier
10:40 -11:00	Coffee break	Coffee break	Coffee break
11:00 -11:40	MA. MARTIN	E. MLAWER	R. GAMACHE
11:40 -12:00	L. Manceron	H. Fleurbaey	J. Buldyreva
12:00 -12:20	O. Ben Fathallah	P. Chelin	E. M. Adkins
12:20 -12:40	S. Kassi	C. Janssen	P. Wcislo
12:40-14:00	Lunch time	Lunch time	Lunch time
	Chairman : M. Rey	Chairman : D. Jacquemart	Chairman : V. Tyuterev
14:00 - 14:40	S. YURCHENKO	A. FEDOROVA (online)	K. VODOPYANOV
14:40 - 15:20	G. MELLAU	N. BATALHA (online)	M. SPEARRIN (online)
15:20 - 15:40	T. Delahaye	M. Lepère	R. Georges
15:40 - 16:00	I. Gordon	S. Perot	J. Harrison
16:00 - 16:20	R. Hargreaves	W. Fakhardji	R. Cole (presented by G. Rieker)
16:20 - 16:40	Exhibitor – J. Schmitt (Bruker)	Exhibitor – J. Hayden (IRsweep)	
		Coffee break	Coffee break
16:40 -17:00	Coffee break	Confee Dreak	Conte bi cak
16:40 –17:00 17:00 –18:30 19:30	Coffee break Poster session 1	Poster session 2 Banquet	Conte break

<u>Program</u>: All the abstracts from the conference are available on our website.

Exhibitors:

A special session will be dedicated to exhibitors to present the latest technological developments and applications. Bruker (<u>https://www.bruker.com/fr.html</u>) and IRsweep (<u>https://irsweep.com/</u>) have already confirmed their presence at the conference.

Local Organizing Committee:

Maud Rotger (chair)	
Alexander Alijah	
Marie-Renée De Backer	
Alain Barbe	
Sophie Chenal	
Ludovic Daumont	
Bruno Grouiez	

Barbara Poty Laurence Régalia Michael Rey Vladimir Tyuterev Dominika Viglaska Virginie Zéninari

International Advisory Committee:

Iouli E. Gordon (chair)	Eli Mlawer
Peter F. Bernath	Andrei Nikitin
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Athéna Coustenis	Jonathan Tennyson
Brian J. Drouin	Geoffrey C. Toon
Jean-Marie Flaud	Ha Tran
Robert R. Gamache	Vladimir G. Tyuterev
Joseph T. Hodges	
Christian Hill	
David Jacquemart	

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