

## Agenda 30/05/2023

Place: UNAHotel (<https://www.gruppouna.it/unahotels/unahotels-varese>)

Wednesday 7 June 2023 (09:00-12:00)		
<b>Side-event E-radiate Workshop</b>		
(more information: <a href="https://eradiate.eu/resources/workshop/2023/documents/eradiate-ws-2023-agenda.pdf">https://eradiate.eu/resources/workshop/2023/documents/eradiate-ws-2023-agenda.pdf</a> )		
<b>Wednesday 7 June 2023 (Afternoon)</b>		
12:30-13:30	<i>Registration</i>	ALL
<b>Session 1: Background</b>		
13:30-13:45	Welcome & Introduction to the workshop	<i>EC-JRC</i>
13:45-14:05	RAMI Overview	Nadine Gobron (EC-JRC)
14:05-14:25	Overview and Status of ACIX-III Land Atmospheric Correction Inter-comparison exercise	Alonso Kevin (ESA)
14:25-14:55	RAMI-V towards results on-line and peer-review publications	<i>CL, NG, MR (EC-JRC)</i>
<b>Session 2: Radiative Transfer Models; Chairs: Masahiro Momoi &amp; Nadine Gobron</b>		
14:55-15:15	LESS: a ray-tracing based 3D radiative transfer model for realistic forest canopies	Qi Jiabo ( <i>Beijing University, China</i> )
15:15-15:35	DART: a 3D vector radiative transfer model for remote sensing applications	Wang Yingjie ( <i>CESBIO, France</i> )
15:35-15:55	A beta version of a novel RT simulator tool (in R) to simulated reflectance at lead and canopy level	Carlos Camino-Gonzalez ( <i>EC-JRC</i> )
15:55-16:15	<i>Coffee Break</i>	
16:15-16:35	PYDOME: A Python-based Model for Computing Scattered Radiation using the Discrete Ordinate Method with Matrix Exponential	Dmitry Efremenko ( <i>DLR</i> )
16:35-16:55	The SOS-ABS radiative transfer code: A Successive Orders of Scattering code including gas absorption	Bruno Lafrance ( <i>CS GROUP</i> )
16:55-17:15	Eradiate: an open-source 3D radiative transfer model for the Earth observation community	Vincent Leroy ( <i>Rayference</i> )
17:15~17:40	Discussion: what did we learn?	ALL; Rapporteur YG

<b>Thursday 8 June 2023</b>		
<b>Session 3: Radiative Transfer Models – Applications (Part 1)</b> Chairs: Noelle Cramer & Ruben Urraca		
09:00-09:15	Summary of previous day	YG
09:15-09:35	Radiative transfer model in the generalized retrieval code “GRASP”	Masahiro Momoi ( <i>GRASP SAS, France</i> )
09:35-09:55	SPARTACUS-Surface: Representing the 3D Interaction of Radiation with Vegetation and Urban Areas for Weather and Climate Applications	Robin J. Hogan ( <i>ECMWF, UK</i> )
09:55-10:15	ARTEMIS-OC: evaluation of uncertainties in ocean colour products and perspectives	Barbara Bulgarelli ( <i>EC-JRC</i> )
10:15-10:35	Adjacency Effect Modelling and Correction for Remote Sensing of Coastal and Inland Waters	Wu Yulun ( <i>University of Ottawa, Canada</i> )
10:35-10:55	<i>Coffee Break</i>	
10:55-12:30	Discussion: RAMI for specific applications: what do we miss?	ALL; Rapporteur RU
12:30-14:00	<i>Lunch</i>	
<b>Session 4: Radiative Transfer Models - Applications (Part 2)</b> Chairs: Stephane Jacquemoud & Barbara Bulgarelli		
14:00-14:20	DEAP algorithm for the retrieval of aerosol extinction and NO2 vertical profiles over the Po Valley	Paolo Pettinari ( <i>CNR-ISAC, Italy</i> )
14:20-14:40	FORUM sensitivity to surface emissivity	Cristina Sgattoni ( <i>IAC-CNR, Italy</i> )
14:40-15:00	Photon recollision probability in forests - empirical evaluation and synergies with LiDAR	Aarne Hovi ( <i>Aalto University, Finland</i> )
15:00-16:00	Discussion part 2: RAMI for specific applications: what do we miss?	ALL; Rapporteur RU
16:30-16:20	<i>Coffee Break</i>	
16:20-16:40	Real canopy deciduous forest scenarios using voxel arrays generated from ground lidar: two candidates for use in the next RAMI phase	Martin Beland ( <i>Laval University, Canada</i> )
16:40-17:00	4D-explicit radiative transfer modeling for real forest: advances and applications	Liu Chang ( <i>CAVElab, Belgium</i> )
17:00 -18:00	Discussion: New Vegetation Scenes in RAMI6 – Evolution of ROMC	ALL; Rapporteur CL
20:00-22:00	<i>Non-host Dinner (TBC)</i>	

**Friday 9 June 2023****Session 5: RAMI Evolution**

Chairs: Yves Govaerts &amp; Christian Lanconelli

09:00-09:30	Wrap-up previous sessions	CL & RU
09:30-09:50	RAMI4ATM Preliminary Results	<i>Nadine Gobron (EC-JRC)</i>
09:50-10:10	Using the RAMI benchmark series for RTM development: user feedback and lessons learned by the Eradiate team	Nicolas Misk ( <i>Rayference, Belgium</i> )
10:10-10:30	Using the ALG toolbox for RAMI4ATM: lessons learned, suggestions and future developments	Jorge Vicent Servera ( <i>Magellium &amp; University of Valencia, Spain</i> )
10:30-10:45	<i>Coffee Break</i>	
10:45-11:00	Feedbacks from RAMI participants survey	<i>Fabrizio Cappucci (EC-JRC)</i>
11:00-12:30	Discussion Next Steps	ALL, <i>EC-JRC</i>