

- 16:00 – 16:30 *Coffee break*
- 16:30 - 17:30 **Green Cluster for Science and Conservation Research Round table – expert panel moderated by Prof. Klaas Jan van den Berg**
- 17:30 - 17:50 **Closing remarks by Klaas Jan van den Berg**, University of Amsterdam, the Netherlands
- 18:00 – 19:30 **Social event at the National Gallery of Art hallway and terrace**, and an opportunity for the participants to visit the collection of the National Gallery featuring Lithuanian and international 20<sup>th</sup> century and contemporary art.

The Green Cluster for Science and Conservation Research is composed of three Horizon Europe Projects:





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GREEN CLUSTER  
FOR SCIENCE AND  
CONSERVATION  
RESEARCH



## Vilnius 2024 Symposium Program, September 4, 2024

- 7:45 - 8:45 *Registration & morning coffee*
- 8:45 - 8:55 *Welcome and opening of the Vilnius 2024 Symposium.* **Dr. Algė Andriulytė**, Deputy Director General for Research and Publishing Lithuanian National Museum of Art
- 8:55 - 9:05 *Cultural Heritage and Sustainability.* **Ana Maria Stan**, European Commission's Policy Officer for Culture, the European Commission, Brussels, Belgium
- 9:05 - 9:15 *From Green Approaches to Green Cluster – Philosophical Aspects of Green Cultural Heritage Science and Sustainability in Conservation. Introduction to European Green Cluster for Science and Research in Conservation.* **Nina Olsson**, Senior Researcher at ICOMOS Lithuania, Horizon Europe Moxy project
- 9:15 - 9:50 *Green gels and complex fluids for the cleaning of works of art.* Prof. **Piero Baglioni**, University of Florence, Italy. Horizon Europe GreenArt project
- 9:50 - 10:25 *Reflections, successes, and challenges in cleaning science research into practice at Tate.* **Bronwyn Ormsby**, Senior Scientist, Tate London, United Kingdom. Horizon Europe GreenArt project
- 10:25 – 10:55 *Coffee break*
- 10:55 - 11:15 *New bio-originated cleaning formulations for metals.* **Edith Joseph**, <sup>1</sup>Qing Wu, Haute école arc Conservation-restauration, Neuchâtel, Switzerland. Horizon Europe GoGreen project

11:15 - 11:35	<p><i>Nonwoven electrospun mats and green solvents: progress in their development as new artwork restoration systems.</i> <sup>1,2</sup> <b>Francesca Ramacciotti</b>, <sup>2</sup>Giorgia Sciutto, <sup>1</sup>Arianna Menichetti, <sup>2</sup>Burcu Keser, <sup>1</sup>Maria Letizia Focarete, <sup>2</sup>Rocco Mazzeo, <sup>1</sup>Marco Montalti, <sup>1</sup>Chiara Gualandi, <sup>2</sup>Silvia Prati,</p> <p>1: Department of Chemistry "G. Ciamician", University of Bologna, Bologna, Italy, 2: Department of Chemistry "G. Ciamician", Microchemistry and Microscopy Art Diagnostic Laboratory (M2ADL), University of Bologna, Ravenna, Italy. Horizon Europe GoGreen project</p>	<p>1: University of Pisa, Pisa, Italy; 2: ICOMOS Lithuania, Vilnius, Lithuania. Horizon Europe Moxy project</p>
11:35 - 11:55	<p><i>Atomic oxygen plasma source as a new tool for cultural heritage</i> <b>Michalis Poupouzas</b>, <sup>1</sup>Ana Sobota, <sup>2</sup>Anton Nikiforov</p> <p>1: Eindhoven University of Technology, Eindhoven, the Netherlands; 2: Research Unit for Plasma Technologies, Ghent University, Ghent, Belgium. Horizon Europe Moxy project</p>	14:20 - 14:40
11:55 - 12:15	<p><i>Cleaning soot-contaminated silk using plasma-generated atomic oxygen: first results on undyed mock-ups</i> <b>Nan Yang</b>, <b>Marta Cremonesi</b>, <sup>1</sup>Geert van der Snickt, <sup>2</sup>Anton Nikiforov.</p> <p>1: University of Antwerp, 2: Ghent University. Horizon Europe Moxy project</p>	<p><i>Tailoring Atomic Oxygen Species for Non-Contact Cleaning in Green Cultural Heritage Conservation.</i> <sup>1,2</sup><b>Tomas Markevicius</b>, <sup>1</sup>Anton Nikiforov, <sup>1</sup>Rino Morent, <sup>2</sup>Klaas Jan van den Berg, <sup>3</sup>Marta Cremonesi, <sup>3</sup>Nan Yang, <sup>1</sup>Yijia Song, <sup>4</sup>Ana Sobota, <sup>4</sup>Michail Poupouzas, <sup>5</sup>Ilaria Bonaduce, <sup>5</sup>Jacopo La Nasa, <sup>6</sup>Nina Olsson, <sup>2,5</sup>Kirill Shumikhin, <sup>2</sup>Catarina Pires, <sup>5</sup>Cecilia Campi, <sup>3</sup>Geert Van der Snickt, <sup>7</sup>Gianluca Pastorelli, <sup>7</sup>Sofie Wikkelsø Jensen, <sup>8</sup>Michaela Florescu, <sup>8</sup>Alison Norton, <sup>8</sup>Josephine Bobeck, <sup>9</sup>Dieuwertje Schrijvers, <sup>1</sup>Pascal Van Der Voort, <sup>10</sup>Eivydas Trioška, <sup>10</sup>Simas Šakirzanovas, <sup>10</sup>Mindaugas Viliunas.</p> <p>1: Research Unit for Plasma Technologies, Ghent University, Ghent, Belgium; 2: University of Amsterdam, the Netherlands; 3: University of Antwerp, Antwerp, Belgium; 4: Technical University Eindhoven, Eindhoven, the Netherlands; 5: University of Pisa, Pisa, Italy; 6: ICOMOS Lietuva, Vilnius, Lithuania; 7: National Gallery of Denmark, Copenhagen, Denmark; 8: Moderna Museet, Stockholm, Sweden; 9: WeLoop, Lambersart, France, 10: KPV, Vilnius, Lithuania. Horizon Europe Moxy project</p>
12:15 – 13:15	Lunch	14:40 – 15:00
13:15 - 13:35	<p><i>Soiling models and making paint mock-ups for cleaning studies. Theoretical and practical aspects.</i> <b>Catarina Pires</b>, <sup>1</sup>Klaas Jan van den Berg (2)</p> <p>1: University of Amsterdam, The Netherlands. Horizon Europe Moxy project</p>	<p><i>Is atomic oxygen the "greenest" choice? Results of a Comparative Life Cycle Assessment (LCA).</i> <b>Dieuwertje Schrijvers</b>, <sup>1</sup>Anastasiya Valakhanovich, <sup>1</sup>Kim Luu, <sup>1</sup>Naeem Adibi, <sup>2</sup>Marta Cremonesi, <sup>3</sup>Catarina Pires, <sup>2</sup>Nan Yang, <sup>3</sup>Klaas Jan Van den Berg (3), <sup>4</sup>Ilaria Bonaduce, <sup>5</sup>Nina Olsson, <sup>2</sup>Geert Van der Snickt, <sup>6</sup>Ana Sobota, <sup>7</sup>Tomas Markevicius, <sup>7</sup>Anton Nikiforov</p> <p>1: WeLOOP, Lambersart, France, 2: University of Antwerp, Antwerp, Belgium, 3: University of Amsterdam, the Netherlands; 4: University of Pisa, Pisa, Italy; 5: ICOMOS Lietuva, Vilnius, Lithuania; 6: Technical University Eindhoven, Eindhoven, the Netherlands; 7: Research Unit for Plasma Technologies, Ghent University, Ghent, Belgium. Horizon Europe Moxy project</p>
13:35 - 13:55	<p><i>Effects of atomic oxygen on cultural heritage materials - methodological approaches and challenges.</i> <sup>1,2</sup> <b>Kirill Shumikhin</b>, <sup>2</sup><b>Cecilia Campi</b>, <sup>1</sup>Ilaria Bonaduce, <sup>1</sup>Ilaria Degano, <sup>1</sup>Jacopo La Nasa, <sup>2</sup>Klaas Jan van den Berg</p> <p>1: University of Pisa, Pisa, Italy; 2: University of Amsterdam, Amsterdam, the Netherlands. Horizon Europe Moxy project</p>	15:00 – 16:00
13:55 - 14:20	<p><i>Collecting the requirements and identifying the technology gap: atomic oxygen technology elicitation based on the interviews with expert conservators.</i> <sup>1</sup><b>Ilaria Bonaduce</b>, <sup>2</sup>Silvia Pizzimenti, <sup>3</sup>Nina Olsson, <sup>3</sup>Tomas Markevicius</p>	<p><b>Demonstration of new materials, testing results by MOXY, GreenArt, and GoGreen (in the hallway)</b></p>