MaSC 2026 Meeting Schedule

Wednesday, September 23, 2026

9:00	**Registration**
9:30	Welcome, opening remarks Matthias Hochgürtel – Vice-President for Research and Knowledge Transfer TH Köln Oliver Lued – Head of the Scientific Department – Rautenstrauch-Joest-museum
Session 1: *VOCs/Elastomers*, Elena Gómez-Sánchez	
10:00	Talk 1 – PaintED: A database of volatile emissions from materials used for production and conservation of paintings - *Fabiana Di Gianvincenzo, Alba Álvarez-Martin, Emma Schymanski, Katrien Keune*
10:20	Talk 2 – Decoding the silent chemistry of historical books: A volatile emission profiling and classification pipeline - *Alexandra Gutmann, Kathleen Raap, Hedwig Suwelack, Eunyeong Jin, Jonathan Williams*
10:40	**Coffee**
11:00	Talk 3 – Identification of reactive sulfur-containing compounds for material evaluation in museums - *Julia Bakker-Arkema, Eric Breitung, Rachel Lackner*
11:20	Talk 4 – An elastomer recognition tool dedicated to museum collections - *Caroline Bouvier, Isabelle Cuoco, Lucille Royan, Juliette Dignat, Nicolas Bouillon, Ludovic Antonelli, Nathalie Balcar, Eleonora Pellizzi*
Poster lightning talks I, David Peggie	
11:40	9 short poster presentations
12:00	**Lunch/poster break**
Session 2: *Methodology*, Ilaria Bonaduce	
13:30	Talk 5 – Use your pyrolysis-GC/MS smartly; optimize instrument and methods, focused on our type of samples - *Henk van Keulen*
13:50	Talk 6 – How old is red? Color specific radiocarbon (14C) analysis in practice - *Laura Hendriks, Céline Spack, Negar Haghipour, Ana Serrano, Maarten van Bommel*
14:10	Talk 7 – Sequential glycomic and proteomic mass spectrometry of complex organic mixtures in cultural heritage materials - *Francesca Galluzzi, Brunella Cipolletta, Katell Bathany, Julie Arslanoglu, Caroline Tokarski*
14:30	Talk 8 – Enhancing ESCAPE for Asian lacquer identification: Discovery and integration of some new THM-Py-GC/MS marker compounds - *Valentina Pintus, Michael Schilling, Tom Learner, Silvia Miklin-Kniefacz, Khadjia Lari, Elsa Bourguignon*

14:50	**Coffee/poster break**
Session 3: *Conservation/Cleaning*, Ken Sutherland	
15:30	Talk 9 – Tracking impact of atomic oxygen cleaning on drying oils with ASAP-MS - *Kirill Shumikhin, Wim Genuit, Ilaria Bonaduce, Klaas Jan van den Berg*
15:50	Talk 10 – Identification of historical wax-resin lining adhesives by THM-Py-GC-MS and ASAP-HRMS – a methodological evaluation - *Klaas Jan van den Berg, Théo-Fany Lange, Saskia Smulders, Emilie Froment, Wim Genuit*
16:10	Talk 11 – From detection to handling: Swab sampling of pesticide residues on heritage objects - *Rola Mansa, Maeve Moriarty, Jeremy Doucette*
16:30	Talk 12 – Proteomic study of silk: impact of ageing, dyeing, and cleaning treatments - *Cecilia Campi, Francesca Galluzzi, Katell Bathany, Ilaria Bonaduce, Ilaria Degano, Caroline Tokarski*
16:50	**Closing Remarks**
17:00-19:00	**Guided Tours**
19:30	**Reception/Dinner Ludwig am Museum**

Thursday, September 24, 2026

Session 4: *Synthetic Materials I*, Christopher Maines	
9:00	Talk 13 – Method development for the quantification of polyester urethane degradation markers - *Victoria Jendrzejewski, Roop Chand Guditi, Simon Kunz1, Jürgen Schram, Elena Gómez-Sánchez*
9:20	Talk 14 – Identification and discrimination of cyclohexanone resins AW2, Ketone N, Laropal K80 MS2, MS2A MS2B, and MS3 - *Ursula Baumer, Anna Micheluz, Charlotte Hoffmann, Ester S. B. Ferreira, Marisa Pamplona, Wibke Neugebauer, Patrick Dietemann*
9:40	Talk 15 – From data to knowledge to SPA (Synthetic Paints used by Artists) – ESCAPE - *Nathalie Balcar, Michael Schilling, Henk van Keulen, Jennifer Poulin*
Poster lightning talks II, David Peggie	
10:00	9 short poster presentations
10:20	**Coffee/poster break**
Session 5: *Synthetic Materials II*, Ester Ferreira	
11:00	Talk 16 – Chemical characterization of acrylic inks by single-shot Py-GC/MS - *Teodora Raicu, Dubravka Jembrih-Simbürger*
11:20	Talk 17 – Characterization of urban art materials by Py-GC-MS and EGA-MS within the Italian SUPERSTAR Project - *Jacopo La Nasa, Silvia Pizzimenti, Ilaria Degano, Tommaso Nacci, Francesca Modugno*

11:40	Talk 18 – Unmasking modern art forgeries: Behind the scenes of the Norval Morrisseau investigation - *Jennifer Poulin, Kate Helwig, Mylène Choquette, Germain Wiseman, Kamila Bladek, Eric Henderson*
12:00	**Lunch/poster break**
Session 6: *Natural Materials*, Jennifer Poulin	
13:30	Talk 19 – Targeting protein modifications derived from oxidized lipids with a tailored bottom-up proteomics methodology and open search tools - *Brynn Sundberg, Katell Bathany, Francesca Galluzzi, Ilaria Bonaduce, Julie Arslanoglu, Caroline Tokarski*
13:50	Talk 20 – Pyrolysis stable isotope analysis protocols to investigate organic cultural heritage components: method development, applications, and access - *Eugenia Geddes da Filicaia, David A. Peggie, Richard P. Evershed, Ian D. Bull, Lucy J. E. Cramp, Mèlanie Roffet-Salque*
14:10	Talk 21 - Pre-polymerized oils: how different pre-treatments can influence the curing of oil paints - *Giulia Caroti, Alessandro Arrigo, Chloe Coustet, Mathieu Thoury, Celia Duce, Ilaria Bonaduce*
14:30	Talk 22 – Oil or substitution products? – A binding media study of the German artist Willi Baumeister between 1930 and 1955 - *Patrick Dietemann, Anna Micheluz, Ursula Baumer, Charlotte Hoffmann, Ester S. B. Ferreira, Marisa Pamplona, Wibke Neugebauer*
14:50	Talk 23 – Mass spectrometric investigation of egg tempera paint films: Aging processes and pigment–binder interactions - *Myriam Fiore, Leila Birolo, Brunella Cipolletta, Silvia Pizzimenti, Costanza Miliani*
15:10	**coffee**
MaSC Business Meeting	
15:50	MaSC business and discussion
17:00	CLOSE

Poster lighting talks

Wednesday, September 23, 2026, 11:40

Poster lightning talks I David Peggie

11:40	Poster 1. Identification of terpenoid resins by atmospheric solids analysis probe-high resolution mass spectrometry (ASAP-HRMS) *Wim Genuit, Klaas Jan van den Berg*
11:42	Poster 2. Implementation and optimization of a GC–MS method for gum analysis and identification of an orchid gum on a Mexican feather mosaic *Elke Cwiertnia, Jérémie Ritoux*
11:44	Poster 3. Interpreting FT-IR spectra and GC-MS data from contaminated cultural heritage materials: A reference dataset for differentiating between binding media and biological residues *Elke Cwiertnia*
11:46	Poster 4. Proteomic identification of marine turtle species from an archaeological tortoiseshell comb excavated in Colmar, France *Brunella Cipolletta, Francesca Galluzzi, Caroline Solazzo, Boris Dottori, Jean Soulat, Caroline Tokarski*
11:48	Poster 5. ORACLE: Building an integrated archaeological organic residue analysis service at KIK-IRPA — seeking community input *Jonas Veenhoven, Louise Decq*
11:50	Poster 6. Compound-specific radiocarbon analysis of madder lake pigments: Toward molecular-level dating of oil paintings *Lionel Rumpf, Tiberiu Sava, Sönke Szidat, Laura Hendriks*
11:52	Poster 7. Steps towards finding the source of indigo using carbon isotope-based mass spectrometry *Edith Sandström, Negar Haghipour, Laura Hendriks*
11:54	Poster 8. Unknown paint binders and lost artistic practices in the Americas: Reframing our investigative approach beyond mass spectrometry *Eugenia Geddes da Filicaia, Clara Granzotto, Ken Sutherland*

Thursday, September 24, 2026, 10:00

Poster lightning talks II David Peggie

10:00	Poster 9. Comparison of EGA and Py-GCMS data from naturally and artificially aged polyester urethane. *Simon Kunz, Roop Chand Guditi, Elena Gómez-Sánchez*
10:02	Poster 10. Challenges: Park McArthur's 'Passive Vibration Durometer Facts 9' *Charlotte Hoffmann, Danka Katrakova-Krüger, Ester S.B. Ferreira*
10:04	Poster 11. TD-GC/MS-based monitoring of volatile pollutants in museum air: Method development, sensor validation, and assessment of MOF-based sorbent materials within the SIMIACCI project *Magdalena Roth, Anna Micheluz, Lucrezia Barchi, Marisa Pamplona*
10:06	Poster 12. DYE-a-LOG: A global reinterpretation of synthetic dye history in non-European textiles *Diego Tamburini*

10:08	Poster 13. The compositional variability of Pigment Red 3 studied with TMAH-Py-GC-MS and HPLC-PDA-HRMS *Sanne Berbers, Klaas Jan van den Berg, Maarten van Bommel*
10:10	Poster 14. Correlating light microscopy and TOF-SIMS as part of a multimodal study into the structure and corrosion phenomena of zwischgold *Christine Berberich, Michael Wahl, Wolfgang Bock, Tolga Acartürk, Christoph Pauly, Marcus Koch*
10:12	Poster 15. Open source chromatography data analysis with OpenChrom® *Matthias Mailänder, Philip Wenig*
10:14	Poster 16. A comparative multianalytical investigation of curing behaviour in Chinese and Japanese urushi lacquers *Miaomiao Dong, Giulia Caroti, Ilaria Bonaduce, Celia Duce*
10:16	Poster 17. When is GC/MS enough? Analytical approaches for complex heritage samples *Hitomi Fujii*