



DA VENIAM SCRIPTIS QUORUM NON GLORIA NOBIS
CAUSA, SED UTILITAS OFFICIUMQUE FUIT

RAMAZZINI DAYS

October 23 - 26, 2025



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RAMAZZINI DAYS 2025

23 - 26 OCTOBER

CARPI, ITALY

INFORMATION PACKET

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DAILY EVENT KEY TIMES

THURSDAY 23 OCTOBER

16:30 Bus Bologna Autostazione to Hotel Carpi and Hotel Touring
19:30 - 22:00 Evening welcome aperitivo for Collegium Fellows at the Hotel Touring

FRIDAY 24 OCTOBER

SCIENTIFIC CONFERENCE DAY 1

San Rocco

8:00 - 8:30 Poster delivery & placement
8:30 - 11:00 Scientific sessions
13:00 - 14:00 Lunch
14:30 - 17:30 Scientific sessions

The Hotel Touring

19:30 Dinner

SATURDAY 25 OCTOBER

COUNCIL OF FELLOWS MEETING / SCIENTIFIC CONFERENCE DAY 2 / RAMAZZINI AWARDS

Sala del Consiglio Comune di Carpi

9:30 - 12:30 Council of Fellows - Sala del Consiglio

The Hotel Touring

13:00 - 14:00 Lunch

San Rocco

14:30 - 17:00 Scientific sessions
18:30 - 19:30 Ramazzini Awards

The Hotel Touring

20:00 - 22:30 Ramazzini gala dinner

SUNDAY 26 OCTOBER

SCIENTIFIC CONFERENCE DAY 3 / COLLEGIUM RAMAZZINI COMMITTEE MEETINGS

San Rocco

9:00 - 12:15 Scientific sessions
12:15 - 13:00 Collegium Ramazzini Committee meetings

The Hotel Touring

13:00 - 14:00 Lunch
15:00 Bus to Bologna Autostazione

RAMAZZINI DAYS 2025

SCIENTIFIC PROGRAM DAILY SCHEDULE

FRIDAY

8:30 – 8:45 Intro and Welcome

9:00 – 10:00 Scientific Session I - Work of the Fellows
Co-chairs: Seong-Kyu Kang, South Korea; Monica Nordberg, Sweden

Redefining priorities: How occupational heat stress and extended hours transform women workers' social and family time, Vidhya Venugopal, India

Occupational justice: A new framework for advancing equity in occupational health, Yonah Amster, Israel

Pulmonary function-visit-to-visit-variability: A mortality risk factor in a fire department occupational World Trade Center cohort and a Rotterdam Community cohort, David Prezant, USA

Utility of metal biomonitoring in military populations with traumatic injuries, Joanna Gaitens, USA

10:15 – 11:00 Scientific Session II -- Posters
Co-chairs: Sashikala Chandrasekar, India; Dingani Moyo, Zimbabwe; Chris Portier, Switzerland

The following posters will be attended

Occupational solar ultraviolet exposure and melanoma risk: A case-control study in an Italian clinical setting, Davide Bergonzini, Italy

Climate crisis and health and the role of occupational health: Updates from international negotiations, and opportunities for the Collegium Ramazzini, Kurt Straif, USA

Occupational contact dermatitis: Estimated incidence vs. official INAIL reporting data in Italy, Rebecca Gasparini, Italy

Temperature and perinatal death: A nationwide time-stratified case-crossover study in Taiwan, Pau-Chung Chen, Taiwan

Southern California Superfund Research Training Program on emerging environmental exposures and work practices for nanomaterials and electronic products, Oladele Ogunseitan



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Assessment of lead (Pb) and carbon dioxide (CO₂) emissions from vehicles in urban air and the impact on health in exposed populations in Albania (2021-2024), Elida Mataj, Albania

Dynamics of value and power: Organization of the informal e-waste sector in Ghana and its health impacts, Johanna Elbel, France

Emerging occupational risk scenarios in the automotive sector driven by the rise of electric mobility, Dagllas Alushi, Italy

11:00 – 11:30

Coffee break

11:45 – 12:45

Scientific Session III - New Approach Methodologies (NAMs) for protecting human and ecosystems health

Co-chairs: John Bucher, USA; Davide Degli Esposti, France

Connecting molecular signals and (eco)toxicological effects: Endocrine disruption in animal models as a case study, Davide Degli Esposti, France

From replacement to relevance: A historical perspective on the evolution and integration of new approach methodologies (NAMs), Casey Warren, USA

Evaluate mechanistic studies by key characteristics of carcinogens: Using a novel quantitative approach and a comprehensive assay database, Luoping Zhang, USA

13:00 – 14:00

Lunch

14:30 – 16:30

Scientific Session IV - Still leaded: Global efforts and challenges in tackling childhood lead poisoning in low and middle-income countries

Co-chairs: Casey Bartrem, USA; Carlos Santos-Burgoa, USA

Advancing the lead agenda, private institutional capture, under a constrained cultural, economic, and political context, Carlos Santos-Burgoa, USA

The enduring legacy of lead poisoning, Bruce Lanphear, Canada

Soil to consumer-products: Lead exposure assessment and risk reduction in former smelter community of Shymkent, Kazakhstan, Marina Steiner, USA

Ethical implications of mineral extraction in relation to children's health in Kabwe, Zambia, Stephan Böse-O'Reilly, Germany

From research to action: Catalyzing new research that accelerates efforts to eliminate unsafe used lead-acid battery (ULAB) recycling practices, Hirushan Thayalan, Canada

16:45 – 17:30**Scientific Session V- Posters (continued)**

Co-chairs: Sashikala Chandrasekar, India; Dingani Moyo, Zimbabwe; Chris Portier, Switzerland

The following posters will be attended

MicroRNA profile in the exhaled breath condensate: A biomarker of past exposure to asbestos and asbestos-related interstitial lung diseases?, Pierluigi Cocco, The United Kingdom

History of asbestos-related preventive measures and asbestos ban in Germany, Xaver Bauer, Germany

Decreasing counts of occupational diseases in the Czech Republic and unexpected serious accident involving benzene, Daniela Pelclova, The Czech Republic

Bridging the gap: Incorporating occupational exposure into exposome science for better disease prevention, Roberto Lucchini, Italy

Domestic asbestos exposure from drinking water in Emilia-Romagna, Elia Lettucci, Italy

10 years of outstanding adherence and yield of screening for occupational lung cancer, 2014-2024, Steven Markowitz, USA

Impact of secondary prevention in the Building Trades National Medical Screening Program, Knut Ringen, USA

Concerns related to violence and job satisfaction among emergency care professionals, Matteo Silvestri, Italy

SATURDAY**14:30 – 15:30****Scientific Session VI - Ramazzini Institute Research Update**

Co-chairs: Philip Landrigan, USA; Danieli Mandrioli, Italy

The translational value of the Cesare Maltoni Cancer Research Center bioassays for human health, Daniele Mandrioli, Italy

The SPRINT Project: Evidence from epidemiological and toxicological studies on multiple pesticides exposures, Simona Panzacchi, Italy

Global Glyphosate Study: Neurobehavioral effects in Sprague-Dawley rats exposed long-term from prenatal life to glyphosate and glyphosate-based herbicides, Ilaria Menghetti, Italy



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15:45 – 17:00

Scientific Session VII - Work of the Fellows

Co-chairs: Anders Englund, Sweden; Amalia Laborde Garcia, Uruguay

Hepatitis B serology testing and vaccine campaign for Gambian health workers: Pilot results and plans for a national scale-up, Melissa McDiarmid, USA

Outdoor workers: Occupational safety and health risks in the climate change era, Alberto Modenese, Italy

Interdisciplinary and experiential education in occupational safety and health, Mitchel Rosen, USA

Environmental origin of breast cancer, Lizbeth López-Carrillo, Mexico

Successes and next steps: Meetings in Tirana and Munich supported by the Collegium. Stephan Böse-O'Reilly, Germany; Melissa Perry, USA

SUNDAY

9:00 – 10:00

Scientific Session VIII - Fluoride: A developmental neurotoxicant

Co-chairs: Linda Birnbaum, USA; Florencia Harari, Sweden

Pathogenesis of fluoride-induced IQ loss: Two possible mechanisms at different developmental stages, Charles Vyvyan Howard, The United Kingdom

Early and ignored signs of fluoride toxicity, Philippe Grandjean, Denmark

Systematic review and meta-analysis of fluoride exposures and children's cognitive neurodevelopment, John Bucher, USA

The end of fluoridation? Bruce Lanphear, Canada

10:15 – 11:00

Scientific Session IX- Posters (continued)

Co-chairs: Sashikala Chandrasekar, India; Dingani Moyo, Zimbabwe; Chris Portier, Switzerland

The following posters will be attended

Occupational health and safety hazards and mitigation in blast furnace reconstruction of operational steel plant, Krishna Nirmalya Sen, India

Aggregate exposure to pesticides measured by wristbands and biomonitoring: Preliminary results from the SPRINT study, Paul Scheepers, The Netherlands

Occupational exposure to ionizing radiation of aircrew during commercial flights and space missions, Mitia Stiscia, Italy

Leveraging low-cost sensors for monitoring air quality in a mega-city in sub-Saharan Africa (SSA): Insights and lessons learned, Adetoun Mustafa, Nigeria

Raising awareness of occupational health and safety through theatre: An Italian academic initiative of public engagement, Allesandra D'Alterio, Italy

Road map for reducing human exposure to toxic metals: Outcomes from the 2025 Munich Symposium, Stephan Böse-O'Reilly, Germany

International comparative analysis of public health regulatory institutions, Carlos Santos-Burgoa, USA

11:15 – 12:15

Scientific Session X -- Work of the Fellows

Co-chairs: Carl Cranor, USA; Ana Soto, USA

Neonicotinoid pesticides: Developmental neurotoxicity evidence and the regulatory landscape, Jennifer Sass, USA

Environmental risk factors and risk of early onset dementia in the Modena province, Northern Italy, Tomaso Filippini, Italy

Increasing pediatric cancer risks in the age of clean energy: What is your excuse - antimony, gold or arsenic?, Margrit Von Braun, USA

12:15 – 13:00

Collegium Ramazzini Committee meetings



DA VENIAM SCRIPTIS QUORUM NON GLORIA NOBIS
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Occupational exposure to ionizing radiation of aircrew during commercial flights and space missions

Presenter - Policy Discussion

Stiscia Mitia

Mitia Stiscia, MD, is an Occupational Medicine resident at the University of Modena and Reggio Emilia, collaborating on various research and clinical activities for the prevention of health risks in workers exposed to occupational risk factors.

All authors and affiliations

Mitia Stiscia (1); Sara Colazzo (1); Alberto Modenese (1); Roberto Lucchini (1,2); Davide Marotta (3)

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2. Florida International University, Miami, Florida, USA

3. International Space Station National Laboratory, Exploration Park, Florida, USA

Background or Purpose

Aircrew members are exposed to ionizing radiation (IR) at flight altitudes between 8 and 15 km, where the effective dose can exceed 1 mSv/year depending on altitude, latitude, and flight duration. In this range, validated computational models are used to assess exposure risks.

Above 15 km individual dosimeters are required. At altitudes >100 km astronauts experience significantly higher IR exposure, mainly from high-LET cosmic radiation.

This study aims to review scientific literature on occupational IR exposure data among flight personnel, including astronauts, through a PubMed/MedLine search (2010–present) with specific keywords. Additionally, grey literature was examined from sources such as the IAEA, ICAO, ENAC, ICRP, UNSCEAR and NASA.

Content

According to UNSCEAR data, aircrew members receive an average annual effective dose (ED) of 2–3 mSv (UNSCEAR, 2008). European data from the ALARA Network report lower values between 1.2 and 2.5 mSv/year, with a maximum of 7 mSv/year observed on a German airline (Andresz, 2015).

The EURATOM Directive 2013/59, aligned with ICRP guidelines, sets the ED limit at 20 mSv/year, meaning aircrew exposures range from 1/16 to 1/8 of the legal threshold. Astronaut exposure usually requires special authorization as exposure is much higher: NASA estimates a cumulative ED of 465 mSv for a hypothetical astronaut mission to the ISS and lunar surface, within the maximum career dose limit of 600 mSv established by international space agencies (OCHMO, 2023).

Implications for addressing the issue

Given the ongoing advancements in space exploration and the expected rise in the number of individuals exposed in the years ahead, and considering the significant ionizing radiation exposures astronauts face, it's necessary to focus more on prevention for these particular workers too.

Potential follow-up/actions

For future human deep space exploration, using current technologies, cumulative radiation doses significantly above current limits could be expected. This would require a thorough review of radiological protection strategies and human spaceflight authorization protocols.

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