GITISA young

PAESTUM | 3-5 JUNE 2025

PROGRAM

ORGANIZED BY

GITISA
Gruppo Italiano di Ingegneria Sanitaria Ambientale

UNIVERSITÀ DEGLI STUDI DI SALERNO

SEED

UNDER THE AUSPICES OF

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World Water Assessment Programme

MINISTERO DELL'AMBIENTE E DELLA SICUREZZA ENERGETICA

EWA
EUROPEAN WATER ASSOCIATION

ANDIS ASSOCIAZIONE NAZIONALE DI INGEGNERIA SANITARIA AMBIENTALE

National Congress of Young Researchers in Sanitary Environmental Engineering GITISA Young 2025

The 2025 edition of **GITISA Young** marks the inaugural national congress entirely dedicated to young researchers in the field of Sanitary Environmental Engineering. The event is organised by the Sanitary Environmental Engineering Division (SEED) of the University of Salerno, under the auspices and guidance of the Executive Board of GITISA (Italian Group of Sanitary Environmental Engineering). The support and collaboration of ANDIS (National Association of Sanitary Environmental Engineering) have also been pivotal in enabling the realisation of this first edition.

The congress will be held from **3 to 5 June 2025** at the Oleandri Resort in **Paestum** (SA), Italy, and is designed to foster collaboration among young researchers across institutions, while encouraging open, interdisciplinary dialogue through interactive sessions, thematic discussions, and structured networking.

This initiative was inspired by the PRIN Conference, organised by the University of Palermo in January 2024 under the auspices of GITISA, and jointly driven by prof. Giorgio Mannina and prof. Vincenzo Naddeo. During that event, and thanks to the vision and support of Prof. Mariachiara Zanetti, President of GITISA, members of the association were encouraged to have national research projects (PRIN) presented directly by the young researchers involved. This experience gave rise to the idea of creating a dedicated national platform for early-career researchers, which has now taken shape as GITISA Young.
In this spirit, part of the congress programme will feature presentations by Early Career Researchers and experts involved in projects of national relevance (e.g., PRIN, PNRR), highlighting the next generation's contributions to today's most pressing environmental challenges. However, GITISA Young is much more than a traditional conference: it is a formative and interactive experience, built to empower and connect emerging professionals in the field.

The congress programme will feature sessions led by Early Career Researchers (RTDa, RTDb, RTT) as well as by senior academics and experts, with additional activities designed specifically for Young participants, including PhD candidates, postdoctoral researchers, fellows, and recent graduates. Thematic sessions will address four core areas:

- Water and Wastewater Management, Treatment, and Reuse
- Solid Waste, Energy, and Circular Economy
- Air Quality and Climate Change
- Contaminated Site Remediation and Environmental Assessment




A strong emphasis is placed on fostering informal and meaningful exchanges, with networking moments strategically integrated to facilitate synergies across academic and professional communities.

The congress is further distinguished by a growing network of GITISA Young **Ambassadors**: a group of professors and international experts who, after submitting their Expression of Interest and completing registration, have enthusiastically confirmed their support. These Ambassadors will play a key role in providing scientific and technical input while also contributing to the creation of a dynamic and engaged community.

The **GITISA Young 2025** benefits from prestigious institutional patronage. In addition to the support of the Ministry for the Environment and Energy Security (MASE) and the UNESCO World Water Assessment Programme (WWAP), new endorsements have been received from the National Research Council (CNR), the European Water Association (EWA), the Italian Hydrotechnical Association, and several local institutions. Furthermore, the collaboration with the journal Ingegneria dell'Ambiente will enhance the visibility of the national projects presented at the event with a dedicated collection in the journal.

To celebrate scientific excellence, GITISA Young will host a dedicated **awards** programme for young researchers, made possible through the support of three leading international publishers: Nature, the Royal Society of Chemistry (RSC), and Cell Press. Seven high-impact journals - including Nature Water, One Earth, and several titles from the RSC's Environmental Science series - will sponsor the awards. The recipients will be officially announced and honoured during the closing ceremony of the congress.

In addition, GITISA Young has adopted a clear, simple, and recognisable visual identity that reflects the initiative's youthful and professional spirit. A dynamic and interactive communication strategy supports every phase of the congress -before, during, and after the event- to strengthen connections and foster lasting collaboration. Updates, ideas, and community engagement will flow through WhatsApp, LinkedIn, Spotify, and Substack newsletter, helping the GITISA Young network grow well beyond the event in Paestum.

In summary, GITISA Young 2025 is not just a congress: it is a launchpad for new ideas, networks, and futures — a unique occasion for Italy's young scientific community in Sanitary Environmental Engineering to shape, together, the direction of the discipline.

Message of the President of the GITISA

Mariachiara Zanetti

Dear GITISA Members,
Let me begin by sincerely thanking you for the support you have always offered me throughout my time as President. It has been – and continues to be – both an honour and a source of deep pride to serve in this role.
There are many reasons for this pride, but allow me to highlight just a few: a dynamic and vital community, sustained by members who are always eager to engage with new topics and challenges; the determination to face increasingly complex issues in our field; and above all, the growing spirit of collaboration across institutions – especially among the younger generation.
Our young researchers – indeed, our very own – are entering a future where university resources may well be increasingly scarce. Yet they are uniquely positioned compared to peers in other disciplines, thanks to the nature of their work: they are not only excellent scientists but also deeply connected with the needs of communities, businesses, and local authorities. They are, therefore, outstanding ambassadors, capable of supporting both decision-makers and policymakers. Their professional identity transcends the uncertainties of the academic landscape, particularly as we move towards a model where "third mission" activities – such as public engagement and innovation transfer – are becoming ever more central.
These young minds are our greatest asset. I therefore urge each of you to do all you can – and even the impossible – to help secure them a meaningful and stable role within academia, as far as realistically possible.
Regarding GITISA Young, this year hosted by the University of Salerno, I would like to express – together with the GITISA Board, which serves on the Scientific Committee alongside the President of ANDIS and Professor Vincenzo Naddeo, Chair of GITISA Young – how proud we are to have supported this initiative. Officially endorsed during the GITISA Assembly on 23 October 2024 and inspired by the Palermo conference in January 2024, where young researchers presented PRIN projects, GITISA Young aims to foster meaningful exchanges between early-career scholars from various universities, encouraging the sharing of projects and experiences.
Now more than ever, we must work and grow together. GITISA Young could become a powerful vehicle for this, and I therefore call on everyone to support it. It is the intention of the President and the Board that GITISA Young become an annual initiative – compact in format, and complementary to existing events in our field such as the SIDISA international conference.
Let me close by extending my warmest wishes for the success of GITISA Young – a success already hinted at by the exceptional number of registrations and the remarkable organisational effort led by Professor Naddeo. Once again, thank you all for your continued participation and heartfelt support for GITISA's mission throughout the years.

With warmest regards,
Mariachiara

Message of the President of the ANDIS

Vincenzo Belgiorno

Dear Colleagues, dear Young Researchers,
ANDIS is a historical non-profit association dedicated with passion to promoting, encouraging, and disseminating in Italy the study of the scientific and technical aspects of sanitary and environmental engineering. Our field of action is vast and crucial for the future of our planet.
But what is ANDIS's perspective for the future, especially in relation to the participants of this conference, young and brilliant minds in environmental engineering?
Firstly, we want to strengthen the importance of the role of the sanitary and environmental engineer in both the technical world and within public administration. We believe that your skills and your growth will be fundamental to addressing the environmental challenges that await us.
Secondly, we wish to provide support to sanitary engineers, both in their scientific journey, through the promotion of research and debate, and in their professional interests, by providing opportunities for updates and networking. A crucial po\int for us is to be an effective link between the academic and the business world. We want the most advanced research to find concrete applications and for the needs of the world of work to fuel new directions of research.
We are also strongly committed to disseminating the innovations that emerge in our field, from new technologies to new methodological approaches. Events like this are a valuable opportunity to circulate these ideas.
Finally, our goal is to valorize all the activities that revolve around the field of sanitary and environmental engineering. We want to give due recognition to your work, your passion, and your commitment to a more sustainable future.
For this reason, ANDIS wants to be a point of reference for you young researchers. We invite you to get to know us better, to participate in our initiatives, and to contribute with your ideas and energy. Together, we can make a difference.

Vincenzo

Welcome Message of the GITISA Young 2025 Chair

Vincenzo Naddeo

Dear Colleagues and Friends,
It is an absolute pleasure to welcome you to GITISA Young 2025, the first national congress in Italy designed for the next generation of researchers in Sanitary Environmental Engineering.
Born from a shared desire to offer more space and voice to young professionals, this initiative brings together academia, industry, and institutions to explore the future of our field through the eyes of those who will shape it. The event was ideated to be more than a conference — it is a platform built on trust, dialogue, and collaboration.
Over three intense and inspiring days, participants will engage in thematic sessions, technical discussions, and interactive activities — all designed to promote exchange, critical thinking, and professional growth. Special attention has been given to the role of Early Career Researchers and Young participants, who will lead and co-create many of the congress activities.
Alongside scientific contributions, GITISA Young also offers moments of creativity and play, such as the LEGO Environmental Challenge and the Kahoot quiz, friendly competitions to foster community spirit.
The congress is supported by leading institutions, including the Ministry for the Environment and Energy Security (MASE), UNESCO WWAP, National Research Council (CNR), and European Water Association (EWA), and enjoys the collaboration of major international publishers like Nature, RSC, and Cell Press, who will award prizes to outstanding research contributions.
A heartfelt thank you goes to the many people who have contributed to making this project a reality—especially the GITISA Young Ambassadors, whose commitment and enthusiasm continue to be a source of inspiration.
We hope this edition will set the foundation for a lasting tradition, one that will continue to grow and evolve with future generations. May this be a meaningful and rewarding experience for all, especially for the young talents who represent our community's greatest promise.
Welcome to Paestum. Welcome to GITISA Young 2025.

Warmest regards,
Vincenzo

GITISA Young 2025 | Scientific Board

Mariachiara Zanetti
GITISA PRESIDENT
Politecnico di Torino

Vincenzo Naddeo
GITISA YOUNG CHAIR
Università degli Studi di Salerno

Vincenzo Belgiorno
ANDIS PRESIDENT
Università degli Studi di Salerno

Giovanni Esposito
Università degli Studi di Napoli
Federico II

Michele Torregrossa
Università degli Studi
di Palermo

Maria Cristina Lavagnolo
Università degli Studi
di Padova

Ezio Ranieri
Università di Bari
Aldo Moro

Marta Domini
Università degli Studi
di Brescia

Iason Verginelli
Università degli Studi di Roma
Tor Vergata

GITISA Young 2025 | Ambassadors

Rodolfo M.A. Napoli
HONORARY CHAIR
Founder of SEED

Richard Connor
HONORARY SPEAKER
UNESCO

Giorgio Bertanza
Università degli Studi di Brescia

Donatella Caniani
Università degli Studi
della Basilicata

Paolo Salvatore Calabrò
Università degli Studi
Mediterranea di Reggio Calabria

Kwang-Ho Choo
Kyungpook National University

Eduardus A.B. Koenders
Tecnical University of Darmstadt

Demetris Francis Lekkas
University of the Aagean

Giorgio Mannina
Università degli Studi di Palermo

Enzo Martinelli
Università degli Studi di Salerno

Andrea Mulloni
Arper

Laura Pessoni
Artemide

Alessandra Polettini
Università degli Studi di Roma
La Sapienza

Raffaella Pomi
Università degli Studi di Roma
La Sapienza

Vincenzo Riggio
Politecnico di Torino

Paolo Roccaro
Università degli Studi di Catania

Fabio Tatano
Università degli Studi di Urbino
Carlo Bo

The names of all ambassadors are indicated in green in the technical program

GITISA Young 2025 | Organizing Committee

The Organizing Committee of GITISA Young 2025 is composed entirely of PhD students and research fellows from the Sanitary Environmental Engineering Division (SEED) of the University of Salerno. This choice reflects the very spirit of the congress, which is dedicated to empowering and promoting the new generation of researchers in the field of Sanitary Environmental Engineering. The committee is structured into dedicated operational teams, each responsible for a specific area of activity:

- **Registration Desk Team**, in charge of managing participant registrations and welcoming delegates onsite. Members: Lucia D'Elia, Fabiana Romano, Silvia De Paola, Letizia Leva, Nafeesa Aman, Maria Grazia D'Amato, Alessia Giannatasio, Pietro Di Donato, Mary Vermi Aizza Corpuz;
- **Transportation Team**, coordinating shuttle logistics and local transfers during the event. Members: Vincenzo Marino, Aniello Mariniello, Lorenzo Raso;
- **Technical Sessions Team**, supporting the organisation, moderation, and technical needs of the scientific sessions. Membners: Domenico Giaquinto, Stefano Cairone, Aniello Mariniello, Lorenzo Raso, Pietro Giaquinto, Emanuele di Biase.

This dynamic and well-coordinated group plays a fundamental role in ensuring the success of the congress through efficient management, attention to detail, and a shared commitment to creating an inclusive and stimulating environments for all participants.

For any inquiries or organisational needs prior to the congress, please feel free to contact the committee via email at: info@gitisayoung.it. During the congress directly contact any member of the staff.

Awards for Scientific Excellence

The GITISA Young 2025 congress is proud to celebrate outstanding contributions from young researchers in the field of Sanitary Environmental Engineering through a series of prestigious awards, supported by leading international scientific publishers.

Thanks to the collaboration with Nature Water (Nature Portfolio), One Earth (Cell Press), and the Environmental Science journals of the Royal Society of Chemistry (RSC), several awards will be conferred to recognise scientific excellence and early career achievements.

- **Nature Water Award – Outstanding Early Career Contribution**
  Nature Water will present an official prize to a young researcher whose work demonstrates exceptional innovation, rigour, and impact in the water and sustainability sciences. The award underlines the congress's commitment to promoting research with real-world significance and visibility on an international stage.
- **One Earth Award – Excellence in Sustainability Research**
  With an impact factor of 15.1, One Earth is Cell Press's flagship journal for environmental and social sustainability. Their special award will honour a researcher whose work addresses today's grand environmental challenges through interdisciplinary and solution-oriented approaches.
- **RSC Environmental Science Awards – Emerging Talent Recognition**
  The Royal Society of Chemistry will grant n.5 prizes supported by its family of Environmental Science journals (Water Research & Technology; Nano; Advances; Atmospheres; Processes & Impacts) to a young scientists demonstrating outstanding research quality and potential for impact in environmental technologies and policies.
- **Scienze Young Talent Award**
  As part of a growing effort to bridge academic science and public engagement, Scienze - the Italian edition of BBC Science - will highlight a promising young researcher whose work combines scientific rigour with communicative clarity and relevance to society.

All session chairs will be asked to fill out an evaluation form to nominate outstanding candidates from their sessions. These nominations will be reviewed by a dedicated committee composed of members of the scientific board of the congress. The final awardees will be selected by the committee and officially announced during the Closing Ceremony.

Instructions for Delegates

GITISA Young 2025 offers a variegate and dynamic programme structured around five session types and two type of visits (Technical and Cultural), each designed to foster scientific exchange, creativity, and collaboration.

- **Plenary Sessions** will be held in the Main Room and feature high-level lectures delivered by renowned professors and internationally recognised experts. These sessions aim to provide updates, strategic insights, and shared learning across the entire congress audience. They address the grand challenges of Sanitary Environmental Engineering, and all participants are warmly encouraged to attend.

- **Projects of National Relevance Sessions** will showcase cutting-edge research funded under PRIN, PNRR, and similar national programmes. These sessions - also held in platform presentation format - are led by Early Career Researchers and co-chaired by senior academics and GITISA Young Ambassadors. Each presentation is allocated **15 minutes total**, including Q&A. Presenters are advised to plan for **10–12 minutes** of speaking time to allow for a brief discussion. Talks should clearly introduce the project scope, highlight key challenges, present emerging solutions, and share any current limitations or open questions. All delegates not involved in parallel sessions are invited to attend and engage in these dialogues, which span the full breadth of Sanitary Environmental Engineering topics.

- **Technical Table Sessions** offer a more interactive and participatory format. Small groups of young researchers will be seated with experts from academia, industry, and institutions to discuss specific technical themes. These sessions are co-moderated by professors and Early Career Researchers who will facilitate discussion and stimulate peer-to-peer exchange. Each delegate contributing to a Technical Table should prepare a brief, discussion-oriented presentation of **~10 minutes**, including a personal introduction, a description of their current research area, and a reflection on key technological or organisational strategies and existing bottlenecks. There is no required format for these presentations - creativity is not only welcome, it is encouraged. The goal is to spark cooperation and mutual awareness among researchers working on similar topics across different institutions.

- **Challenge Sessions** are designed exclusively for Young participants and include: the **LEGO Environmental Tech** (team-based), and the **Kahoot! in Sanitary Environmental Engineering** (individual-based). Both are scheduled to take place during the ANDIS and GITISA Assemblies. Winners will be announced and awarded during the Closing Ceremony. Registration for the challenges will occur onsite at the Registration Desk.

- **Networking Session** will be hosted during the Welcome Aperitif on the evening of 3 June, directly on the beach at sunset. Unlike the formal Technical Tables, which are by invitation only and restricted to pre-selected delegates, this open and informal networking session is designed to foster spontaneous connections among all congress participants. Four clearly marked areas - each corresponding to one of the congress's macro-topics - will help delegates connect with peers sharing similar scientific and technical interests. In a relaxed yet intellectually stimulating setting, this session offers the perfect occasion to spark ideas, build new connections, and explore future collaborations - with a cocktail in hand, the beach and the sea at sunset on the horizon.

Presentation Submission: Delegates using slides or multimedia content (e.g., PowerPoint) must email their final files to info@gitisayoung.it by **31 May 2025**, naming files with the session number and surname (e.g., Session12_Rossi.pptx). If last-minute changes are required or submission is not possible by the deadline, presenters must deliver their files in person at least 1 hour before their session, using a USB device.

Importantly, to preserve the creativity and originality of our young researchers, GITISA Young does not impose a fixed template or slide format. While we have crafted a strong and recognisable visual identity for the event, we believe that content delivery should remain flexible. Delegates are invited to use any style, structure, or tool they feel best supports clarity and engagement - so long as they respect the time limits and clearly convey their message.

Finally, all session chairs will be asked to complete evaluation forms to nominate **outstanding contributions**. These nominations will be reviewed by scientific board of the Congress, which will then determine the recipients of the prestigious awards presented during the final ceremony.

PROFESSIONAL CREDITS

Registered participants of the GITISA Young 2025 Congress who are also members of a professional engineering order in Italy will be eligible to receive Crediti Formativi Professionali (CFP), thanks to the official support and patronage of the Order of Engineers.

In compliance with the Regulations for the Continuing Professional Development of Engineers, 3 CFPs will be awarded to eligible participants who meet the following requirements:

- Registration for the relevant congress sessions;
- Active participation in those sessions;
- On-site signature on the official attendance sheets provided by the congress secretariat.

Credits will be granted as follows:

- June 3rd: Attendance of Sessions 1 and 2 will be eligible for 3 CFPs
- June 4th: Attendance of Sessions 3, 4, and 8 will be eligible for 3 CFPs

Please note that credits will only be recognized for those whose attendance is duly documented on the designated sign-in forms.

GITISA YOUNG 2025 | Program Overwiew

June 3rd

14:00 14:30	Registration
14:30 16:00	**Session 1** Opening Ceremony Main Room
16:00 16:40	Coffee Break
16:40 18:40	**Session 2** Plenary Session I Frontiers in Environmental Engineering Main Room
19:00 22:00	Apericena & Networking Session

GITISA YOUNG 2025 | Program Overwiew

June 4th

8:45 9:15	**Session 3** Plenary Session Sanitary Environmental Engineering Main Room			
09:15 11:00	**Session 4** Waste, Energy and Circular Economy Main Room	**Session 5** Air Quality and Climate Change Table A	**Session 6** Emerging Contaminants and Control Strategies Table B	**Session 7** One Health Table C
11:00 11:30	Coffee Break			
11:30 13:30	**Session 8** Advances in Water and Wastewater Main Room	**Session 9** Innovative Processes and Circular Strategies in Water Cycle Table A	**Session 10** Resilience, Risk and Water Reuse Table B	**Session 11** Building, energy and climate neutrality Table C
13:30 14:30	Lunch			
14:30 16:30	**Session 12** Circular Solutions for Environmental Sustainability Main Room	**Session 13** Sustainable Remediation and Circular Approaches for Contaminated Sites Table A	**Session 14** Circular Strategies and Waste Valorisation Table B	**Session 15** Advances in Membrane Treatment Table C
16:30 17:00	Coffee Break			
17:00 18:30	ANDIS assembly	**Session 16** Challenge	LEGO Environmental Tech Tables B & C	**Workshop** YWP-Italy Meet-Up Table A
20:00 22:00	Social Dinner			

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GITISA YOUNG 2025 | Program Overwiew

June 5th

09:00 11:00	**Session 17** Design and sustainable development Main Room	**Session 18** Emerging Contaminants: PFAS and Microplastics Table A	**Session 19** Bioenergy and Resource Valorisation from Organic Waste Table B	**Session 20** Sustainable Processes and Carbon-Oriented Material Innovations Table C
11:00 11:30	Coffee Break			**Technical Visit**
11:30 13:30	GITISA assembly	**Session 21** Challenge	Kahoot! in Sanitary Environmental Engineering Tables	
13:30 15:00	Lunch			
15:00 16:00	**Session 22** Closing and Awards Ceremony Main Room			
16:30 18:30	**CULTURAL VISIT**			

Session 1 | Main Room

Plenary Session | Opening Ceremony

14:30 – 15:30	**Institutional Welcome Addresses**
15:30 – 16:00	**A Global Perspective on Water** **Richard Connor** UNESCO World Water Assessment Programme (WWAP)

Session 2 | Main Room

Plenary Session | Frontiers in Environmental Engineering

Session Chair:
Giorgio Mannina, Università degli Studi di Palermo
Paolo Roccaro, Università degli Studi di Catania

16:40 – 17:00	The EU Science Hub: Shaping Environmental Policy and Career Paths for Young Professionals **Roberta Maffettone**, European Commission Joint Research Centre
17:00 – 17:20	EWA: Clean Water and Research for Europe **Fabio Tatàno**, European Water Association
17:20 – 17:40	The new EU regulatory framework in water reuse and urban wastewater treatment: challenges and opportunities **Alfieri Pollice**, National Research Council (CNR)
17:40 – 18:00	Decoding Microbial Communication: Quorum Sensing and Quenching for Engineering the Water-Energy Nexus **Kwang-Ho Choo**, Kyungpook National University
18:00 – 18:20	Assessing Carbon Footprint in Hotel Operations: A Circular Economy Approach to Energy Use, Waste Management, and Emission Reduction Strategies **Demetris F. Lekkas**, University of the Aegean
18:20 - 18:40	The New Air Quality Directive: Forecasts and Expected Impacts **Fabio Romeo**, Division III – Air Pollution and Air Quality, Italian Ministry of the Environment and Energy Security

Session 3 | Main Room

Plenary Session | Sanitary Environmental Engineering

Session Chair:
Vincenzo Naddeo, Università degli Studi di Salerno

8:45 – 9:15	Sanitary Environmental Engineering: Challenges and Opportunities **Mariachiara Zanetti**, Politecnico di Torino, Presidente GITSA

Session 4 | Main Room

Project of National Relevance | Waste, Energy and Circular Economy

Session Chairs:
Vincenzo Belgiorno, Università degli Studi di Salerno
Vincenzo Riggio, Politecnico di Torino

09:15 – 09:30	Ecosistema Territoriale di Innovazione dell'Emilia-Romagna - ECOSISTER **Giovanni Dolci**, Politecnico di Milano
09:30 – 9:45	WE-WASTE END **Giovanni Beggio**, Università degli Studi di Padova
9:45 – 10:00	BSF LARvae for WAstewater treatment and Resource recovery – LarWaR process **Valentina Grossule**, Università degli Studi di Padova
10:00 – 10:15	Ecosystem of Innovation for Next Generation Sardinia - e.INS **Fabiano Asunis,** Università degli Studi di Cagliari
10:15 – 10:30	Biofissazione di anidride carbonica ad alta concentrazione con microalghe poliestremofile **Vincenzo Riggio**, Politecnico di Torino
10:30 - 10:45	Indeco Green Hydrogen Hub: Soluzioni tecnologiche avanzate e sostenibili per produzione di idrogeno **Diego Magrini**, IND.ECO. S.r.l. | Greenthesis Group

Session 5 | Table A

Technical table | Air Quality and Climate Change

Session Chairs:
Fabio Romeo, Italian Ministry of the Environment and Energy Security
Maria Rosaria Della Rocca, Regione Campania
Tiziano Zarra, Università degli Studi di Salerno

09:15 – 11:00	Development of a python-driven preprocessor for meteorological inputs of a gaussian dispersion model **Marco Pitardi**, Università degli Studi di Modena e Reggio Emiilia
	CO_2 emission factors for Waste-to-Energy plants: an approach based on flue gas and waste composition **Luigi Acampora**, Università degli Studi di Roma Tor Vergata
	Biofilters for odour emissions: an integrated strategy for removal efficiency optimization **Michele Menghini**, Università degli Studi di Brescia
	Continuous Monitoring of VOCs Using Low-Cost Sensors in Contaminated Sites **Fabio Petrigliano**, Università degli Studi di Modena e Reggio Emiilia
	Unconventional sources of air pollution monitoring and characterization in sensitive environments **Lorenzo Raso**, Università degli Studi di Salerno
	IoT-based Automated Flux Chamber for Real-Time Monitoring of VOC Emissions at Contaminated Sites **Nicolò Tonolo**, Università degli Studi di Roma Tor Vergat
	Application of remote sensing for the study of Anthropogenic Effects in the Context of SUHI **Davide Parmeggiani**, Università degli Studi di Modena e Reggio Emiilia
	AQMS and Fence line monitoring with DOAS open path systems **Marco Bettini**, BeLabs S.r.l.

This session is organised within the framework of the research project entitled "Caratterizzazione e controllo del materiale particolato in aria ambiente: strumenti, tecniche ed interferenze", funded under the Programme Agreement for Air Quality Protection between the Italian Ministry of the Environment and Energy Security (MASE) and the Campania Region (CUP B 21122000180001)

Session 6 | Table B

Technical table | Emerging Contaminants and Control Strategies

Session Chairs:
Fabio Tatano, Università degli Studi di Urbino Carlo Bo
Marta Domini, Università degli Studi di Brescia

09:15 – 11:00	Prioritization of CECs for monitoring plan in reclaimed water reuse projects by MCDM method **Vittoria Grillini**, Università degli Studi di Ferrara
	The design of a novel approach to tackle DBPs formation and their precursors **Luca Baccini**, Università degli Studi di Catania
	Effect of erythromycin on TPH removal in bioslurry-treated sediments and the rebound phenomenon **Giorgio Maria Castiglione**, Università degli Studi di Enna Kore
	Use of fluorescence sensors for the monitoring of DBPs in a full scale water distribution system **Luigi Marino**, Università degli Studi di Catania
	Bioconversion of hemp biomass residues into VFAs as key intermediates for SCP production **Carlo Moscariello**, Università degli Studi di Napoli Federico II

Session 7 | Table C

Technical table | One Health

Session Chairs:
Vincenzo Naddeo, Università degli Studi di Salerno
Sara Roversi, Future Food Mediterraneo S.R.L.

09:15 – 11:00	One Health, One Future	Towards Sustainable Food Futures **Sara Roversi**, Future Food Mediterraneo S.R.L.
	Uncovering New Biomarkers to Explore the Nexus Between Environmental Quality and Human Health **Luigi Montano**, ASL Salerno
	One Health: experiences and new opportunities **Antonio Pizzolante**, Università di Napoli Federico II
	Healthy Oceans, Healthy Lives **Stefano Pisani**, Sindaco del Comune di Pollica (SA)
	The LAFA project: A study on health effects **Lucia D'Elia**, Università degli Studi di Salerno
	Air quality and Risk assessment **Emanuele Di Biase**, Università degli Studi di Salerno
	Tracking Invisible Pollutants: Microplastics, Pesticides and Reproductive Health in a One Health Framework **Oriana Motta**, Università degli Studi di Salerno
	FAIR resources from molecules to environment and back: global challenges and emerging opportunities for a one health approach **Maria Luisa Chiusano**, Università di Napoli Federico II

Finanziato dall'Unione europea NextGenerationEU
Ministero dell'Università e della Ricerca
Italiadomani PIANO NAZIONALE DI RIPRESA E RESILIENZA
onfoods

This session is supported by the project entitled "Longevity & Fertility Algorithm (LAFA)" – CUP: E63C22002030007. LAFA project was funded under the National Recovery and Resilience Plan (NRRP), Mission 4 Component 2 Investment 1.3 – Call for tender No. 341 of 15 March 2022 of Italian Ministry of University and Research funded by the European Union – NextGenerationEU; Project code PE00000003, Concession Decree No. 1550 of 11 October 2022 adopted by the Italian Ministry of University and Research, Project title "ON Foods – Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods".

Session 8 | Main Room

Projects of National Relevance | Advances in Water and Wastewater

Session Chairs:
Paolo Roccaro, Università degli Studi di Catania
Francesco Di Capua, Università degli Studi della Basilicata

11:30 – 11:45	Quaternary treatments for the removal of organic micropollutants after the Directive (EU) 2024/3019 **Paolo Roccaro**, Università degli Studi di Catania
11:45 – 12:00	Integrating innovative N-removing biofilm processes and excess sludge valorization technologies for the development of energy- and material-efficient wastewater treatment plants - N4En **Tommaso Lotti**, Università degli Studi di Firenze
12:00 – 12:15	Renewable liquid Fuels from wastewater sludge: a step towards circular economy - ReFil **Gonzalo Agustin Martinez**, Università degli Studi di Bologna
12:15 – 12:30	Sicilian MicronanoTech Research and Innovation Center – SAMOTHRACE **Filippo Fazzino**, Università degli Studi di Catania
12:30 – 12:45	3D effect-based assessment of direct emissions for the eco-sustainability of wastewater management strategies - 3D-WWTP-TOX **Marta Domini**, Università degli Studi di Brescia
12:45 – 13:00	Il Sistema Completo per la Gestione del Piano di Sicurezza delle Acque - WSPCLOUD **Giuseppe Imperioso**, Considera srl
13:00 – 13:15	Digital Twin for water treatment and reuse **Francesco Bianco**, Università degli Studi di Cassino e del Lazio Meridionale
13:15 – 13:30	Smart Sustainable Saving Solutions for urban WAter and wastewater Treatment - S^4WAT **Francesco Di Capua**, Università degli Studi della Basilicata

Session 9 | Table A

Technical table | Innovative Processes and Circular Strategies in Water Cycle

Session Chairs:
Paolo Calabrò, Università degli Studi Mediterranea di Reggio Calabria
Antonio Mineo, Università degli Studi di Palermo

11:30 – 13:30	Study of secondary phosphate release in an aerobic granular sludge wastewater treatment system **Alessandro Alberti**, Università degli Studi di Firenze
	Benchmarking in WWTPs and best practices to enhance the efficiency and sustainability of the process **Federica De Marines**, Università degli Studi di Palermo
	Data-Driven Modeling of Water Pollution Using Neural Networks **Antonino Di Bella**, Università degli Studi di Catania
	The production of biopolymers from wastewater treatment **Antonio Mineo**, Università degli Studi di Palermo
	Long-term performance of aerobic granular sludge treating municipal wastewater **Caterina Senesi**, Università degli Studi di Firenze
	Normalized measurement proposal for carbon footprint quantification in combined sewer system **Lorenzo Tombolini**, Università Politecnica delle Marche
	Start-up of an intermittent-aeration IFAS-OSA system coupling SND to near-zero sludge generation **Nicola Di Costanzo**, Università degli Studi della Basilicata
	Water-energy-food nexus framework applied to real-world farming practices **Saurabh Shukla**, Università degli Studi di Catania

Session 10 | Table B

Technical table | Resilience, Risk and Water Reuse

Session Chairs:
Donatella Caniani, Università degli Studi della Basilicata
Valentina Grossule, Università degli Studi di Padova

11:30 – 13:30	Assessment of nitrogen and phosphorus in wastewater for use in agriculture in the Apulia region **Sarah Gregorio**, Università degli Studi di Bari
	Vulnerability assessment of WWTPs using a territorial multi-hazard multi- scale approach **Maria Castiglione**, Università degli Studi di Palermo
	The paradigm shifts from linear to circular economy in wastewater treatment **Francesco Pasciucco**, Università degli Studi di Pisa
	Evaluation of Climate-Resilient Water Safety Plan in disaster-affected rural communities in Nepal **Maria Pezzato**, Università degli studi di Brescia
	Managed Aquifer Recharge: a promising technique for treated wastewaters reuse **Maria Adele Taramasso**, Politecnico di Torino
	Resilience and Adaptability of MABRs Under Salinity Stress **Nicolas Hernandez- Alcayaga**, Politecnico di Torino
	Multidisciplinary feasibility study for the Sicilian wastewater reuse projects for irrigation **Samuele Vullo**, Università degli Studi di Catania
	Water-reuse and MPs from WWTP: experimental and modelling approaches to comply with EU regulation **Marika Carnesi**, Università degli Studi di Palermo

Session 11 | Table C

Technical table | Building, energy and climate neutrality

Session Chairs:
Eduardus A.B. Koenders, Tecnical University of Darmstadt
Enzo Martinelli, Università degli Studi di Salerno

11:30 – 13:30	Thermal energy storage in construction: Advances in bio-based phase change materials **Eduardus A.B. Koenders**, Tecnical University of Darmstadt
	Sustainable concrete structures: use of secondary raw materials and design for disassembly **Marco Pepe**, Università degli Studi di Salerno
	Spatio-Temporal Dynamics of the Urban Heat Island using Remote Sensing and Land Use Change in Modena **Stephanie Vega Parra**, Università degli Studi di Modena e Reggio Emiilia
	Nature-based composite systems for structural applications: new trends and challenges **Enzo Martinelli**, Università degli Studi di Salerno
	Brownfield Regeneration and the Path Toward Sustainable Industrial Development **Federico Pinzin**, Università degli Studi di Brescia
	Bioleaching Treatment of Concrete Waste from Construction and Demolition Waste (CDW) **Gennaro Trancone**, Università degli Studi di Napoli Federico II
	Integrating the Green Economy into Infrastructure Construction **Carlo Di Costanzo**, Project manager, Webuild S.p.A.
	Life Cycle Assessment of 3D Painted Concrete with Natural and Recycled Aggregates **Pietro Giaquinto**, Università degli Studi di Salerno

Ministry of Foreign Affairs and International Cooperation

This session is supported by the Ministry of Foreign Affairs and International Cooperation (MAECI) within the project 'Joint Italian-German research cooperation on net-zero construction materials for sustainable development' (PGR12282, prot. MAE02035812023-11-16, CUP:D44D23002350001).

Session 12 | Main Room

Projects of National Relevance | Circular Solutions for Environmental Sustainability

Session Chairs:
Giorgio Mannina, Università degli Studi di Palermo
Marco Ravina, Politecnico di Torino

14:30 – 14:45	Innovative Membrane Technologies for Advanced and Sustainable Wastewater Treatment **Giorgio Mannina**, Università degli Studi di Palermo
14:45 – 15:00	Upcycling of agro-induStrial by-products - USEFUL3 **Grazia Policastro**, Università Telematica Pegaso
15:00 – 15:15	Ecosystem of Innovation for Next Generation Sardinia - e.INS **Gianluigi Farru**, Università degli Studi di Cagliari
15:15 – 15:30	BIOpolymers from agri-food waste digestates for SMART release bioFERTilisers - BIOSMARTFERT **Isabella Pecorini**, Università degli Studi di Pisa
15:30 – 15:45	National Biodiversity Future Center - NBFC **Erica Gagliano**, Università degli Studi di Genova
15:45 – 16:00	Multi-Risk sciEnce for resilienT commUnities undeR a changiNg climate - RETURN **Marco Ravina**, Politecnico di Torino
16:00 – 16:15	Smart Leaf: Clean, Circular and Connected City **Augusto Ferrentino**, Dirigente Bardascino Holding Spa
16:15 – 16:30	Longevity & Fertility Algorithm - LAFA **Giuseppina Oliva**, Università degli Studi di Salerno

Session 13 | Table A

Technical table | Sustainable Remediation and Circular Approaches for Contaminated Sites

Session Chairs:
Vincenzo Belgiorno, Università degli Studi di Salerno
Giuseppe Napolitano, Dirigente Area Tecnica della Struttura di Supporto al Commissario Straordinario di Governo ARIN Bagnoli - Coroglio

14:30 – 16:30	Remediation of Bagnoli and Kuwait Refinery: impacts of circular approaches in environmental recovery **Stefano Grisi**, Greenthesis S.p.A. I Greenthesis Group
	Pre-Evaluating the Acceptability of Contaminated Soils in Thermal Desorption Facilities **Christelle Anangmo Teguimnang**, Università degli Studi di Brescia
	Enhancing MER: Integrating Electroactive Bacteria and Fungi for Sustainable Soil Decontamination **Gabriele Beretta**, Politecnico di Milano
	Evaluation of microbial cellulolytic activity on cellulose and fermentation of Arundo donax hydrolys **Marisa Amato**, Università degli Studi di Napoli Federico II
	HPRBs as a novel passive mitigation strategy for chlorinated vapors at contaminated sites **Clarissa Settimi**, Università degli Studi di Roma Tor Vergata
	Solar-Driven Soil Remediation via Thermal Desorption and Energy Storage **Enrico Licitra**, Università degli Studi di Enna Kore
	Implementation of CFD models for the simulation of thermal desorption processes for the remediation **Rosario Napoli**, Università degli Studi di Catania

Session 14 | Table B

Technical table | Circular Strategies and Waste Valorisation

Session Chairs:
Alessandra Polettini, Università degli Studi di Roma "La Sapienza"
Tiziano Zarra, Università degli Studi di Salerno

14:30 – 16:30	LCA of Olive Pomace Valorisation: Circular Economy Strategies for Agri-food Waste Management **Stefano Spotorno**, Università degli Studi di Genova
	"Waste 2 Remediate": Remediation through food-waste and agro-waste valorization **Marta Puddu**, Politecnico di Milano
	Environmental Sustainability of Engineering Thermoplastics: A Life Cycle Assessment Approach **Alberto Pietro Damiano Baltrocchi**, Università degli Studi dell'Insubria
	Circular economy and waste valorisation: recovery of textile fibres and fiberglass for market-ready End of Waste materials **Luca Olgiati**, Greenthesis S.p.A. I Greenthesis Group
	Circular economy approach for the management of waste and by-products in agriculture **Ramsha Khan**, Università degli Studi di Catania
	Evaluating Industrial Symbiosis: Towards Context-Aware Assessment Frameworks **Reza Vahidzadeh**, Università degli Studi di Brescia
	Economic Analysis Models for Long-Term Environmental Impact Assessment **Gabriella Maselli**, Università degli Studi di Salerno

Session 15 | Table C

Technical table | Advances in Membrane Treatment

Session Chairs:
Kwang-Ho Choo, Kyungpook National University
Vincenzo Naddeo, Università degli Studi di Salerno

14:30 – 16:30	Living membrane bioreactor for the control of contaminants of emerging concern in urban wastewater **Mary Vermi Aizza Corpuz**, Università degli Studi di Salerno
	Enhancing resource recovery and carbon neutrality in membrane-based wastewater treatment via AI **Stefano Cairone**, Università degli Studi di Salerno
	Synergetic coupling of membrane distillation and water electrolysis for green hydrogen production **Gabriele Copetti**, Politecnico di Torino
	Nitrogen removal and nitrous oxide emissions: a comparing MBR and ultrafiltration **Jie Jiang**, Università degli Studi di Palermo
	Conventional vs Innovative Membrane Bioreactors: Pilot plant experiments **Dilsad Soylu**, Università degli Studi di Palermo
	Sustainable strategies for microplastic and contaminant removal in wastewater reuse **Alessia Torboli**, Università degli Studi di Trento
	Membrane Technologies for the Advanced Treatment of Hazardous Liquid Waste **Salvatore Adelfi**, Plant Director at B.Energy S.p.A.

Ministry of Foreign Affairs and International Cooperation

This session is supported by the Ministry of Foreign Affairs and International Cooperation (MAECI) as part of the project 'Electrochemical Membrane Bioreactors for Water Reuse and Hydrogen Fuel Recovery from Wastewater in the Textiles Industry' (KR23GR05, CUP: D44D23000110001).

Session 16 | Tables

Challenge | LEGO Environmental Tech

h. 17:00 - 18:30

Session Chairs:
Stefano Cairone, Università degli Studi di Salerno
Lucia D'Elia, Università degli Studi di Salerno
Lorenzo Raso, Università degli Studi di Salerno

In this unique interactive session, young researchers (PhD students, Research Fellow, Master Students, etc.) will work in teams to conceptualise and prototype innovative environmental technologies using LEGO bricks and crochet elements as creative and educational tools. Inspired by real-world challenges in water, waste, and energy management, the LEGO Challenge invites participants to translate complex engineering ideas into tangible, visual solutions. All teams will receive the same detailed instructions simultaneously at the beginning of the session, ensuring a fair and synchronised start. The session is designed to foster collaboration, creativity, and systems thinking in a playful yet intellectually engaging format. A jury will evaluate each project based on originality, feasibility, and communication effectiveness.

Workshop | Table A

YWP - Italy Meet-Up

h. 17:00 - 18:30

Join the wave! Connect, collaborate, and contribute with YWP-Italy at GITISA Young 2025

Join us for an energizing and interactive event designed to bring together young professionals, students, and early-career experts in the water sector! Hosted by YWP-Italy as part of GITISA Young 2025, this session offers a unique opportunity to build your network, share your experiences, and explore your professional journey in a dynamic and inclusive setting.

IWA the international water association YOUNG WATER PROFESSIONALS ITALY

Initiative organised by the International Water Association (IWA) Young Water Professionals Italy.

Session 17 | Main Room

Technical Session | Design and sustainable development

Session Chairs:
Giorgio Bertanza, Università degli Studi di Brescia
Vincenzo Naddeo, Università degli Studi di Salerno

09:00 – 09:15	Industria, Design, Ambiente e Sviluppo sostenibile **Lina Piccolo**, Deputy President, Confindustria Salerno
09:15 – 9:30	La Dimensione Estetica dello Sviluppo Sostenibile: Nuove Frontiere e Sfide **Luca Giordano**, Università degli Studi di Salerno
09:30 – 10:00	Sostenibilità = Circolarità = Responsabilità **Andrea Mulloni**, Arper
10:00 – 10:30	L'ombra del prodotto: La costruzione invisibile del paesaggio **Davide Apolloni**, Designer
10:30 – 11:00	The Human & Responsible Light – Artemide INTEGRALIS ® **Laura Pessoni**, Head of Innovation Design, Artemide

Session 18 | Table A

Technical table | Emerging Contaminants: PFAS and Microplastics

Session Chairs:
Paolo Roccaro, Università degli Studi di Catania
Giusy Oliva, Università degli Studi di Salerno

09:00 – 11:00	Micro- and Nano-plastics in ambient air: advanced methods for characterization and assessment **Vincenzo Marino**, Università degli Studi di Salerno
	Understanding PFAS adsorption onto GAC: A combined analytical and experimental study **Francesca Nunzio**, Politecnico di Torino
	Combined sewer overflows from WWTPs as a critical sources of MPs discharge into aquatic environments **Giuseppe Beringheli**, Università degli Studi di Palermo
	New solutions to control PFAS in water system: Analytical Approaches and Ongoing Investigations **Nafeesa Aman**, Università degli Studi di Salerno
	Approaches to Address Microplastic Pollution in Wastewater Treatment Plants: Lessons from "ProPla" **Marco Carnevale Miino**, Università degli Studi dell'Insubria
	Assessment of carbonaceous and tire debris in atmospheric particulate matter **Alessia Giannattasio**, Università degli Studi di Salerno

PRIMA PARTNERSHIP ON RESEARCH AND INNOVATION IN THE MEDITERRANEAN AREA

This project is part of the PRIMA programme supported by the European Union (Agreement 2322)

This session is supported by European Union as part of the project entitled "Sustainable uPgraded WWTPs for resOurce recovery, water reuse and health surveillance in the Mediterranean region. (SPOREMED)". SPORE-MED project (Aegreement 2322) is part of the PRIMA programme supported by the European Union

Session 19 | Table B

Technical table | Bioenergy and Resource Valorisation from Organic Waste

Session Chairs:
Raffaella Pomi, Università degli Studi di Roma "la Sapienza"
Iason Verginelli, Università degli Studi di Roma Tor Vergata

09:00 – 11:00	Evaluation of hydrogenotrophic methanogenesis in a batch test using gas produced by a dark fermentat **Ouafa Achouri**, Università degli Studi di Cassino e del Lazio Meridionale
	Medium-chain Fatty Acids Production from Fish Waste via Single-stage Chain Elongation **Samuel Gyebi Arhin**, Università degli Studi di Napoli Federico II
	Pretreatment strategies for maximizing biohydrogen yield in anaerobic fermentation processes **Fabiana Romano**, Università degli Studi di Salerno
	Microbial protein production for wastewater treatment and biogas and digestate valorization **Marica Areniello**, Università degli Studi di Napoli Federico II
	Biological Methane Production from Hydrogen and Carbon dioxide **Arzeoo Sharifi**, Politecnico di Torino
	Multi-Stage Pressure Swing Adsorption for Nitrogen Rejection in Biogas Upgrading **Silvia De Paola**, Università degli Studi di Salerno
	Intensification of the Anaerobic Digestion Process through Conductive Additives **Altea Pedullà**, Università degli Studi Mediterranea di Reggio Calabria

Session 20 | Table C

Technical table | Sustainable Processes and Carbon-Oriented Material Innovations

Session Chairs:
Michele Torregrossa, Università degli Studi di Palermo
Isabella Pecorini, Università degli Studi di Pisa

09:00 – 11:00	Carbonation processes to valorise EAF steel slag within the framework of the Rome Technopole project **Alessandra Masi**, Università degli Studi di Roma Tor Vergata
	Biodegradability of compostable plastics in anaerobic conditions **Domenica Pangallo**, Università degli Studi Mediterranea di Reggio Calabria
	Outcomes of urban mining from waste bale processing **Maria Grazia D'Amato**, Università degli Studi di Salerno
	Start-up and operation of an intermittently-aerated pilot-scale MBBR for real wastewater treatment **Anna Lanzetta**, Università degli Studi di Napoli Federico II
	Effect of 3D printing and pre-treatments on PLA biodegradability in anaerobic digestion **Davide Giandomenico**, Università degli Studi di Bari
	Optimization of advanced bio-based carbon capture and utilization system through technological development **Aniello Mariniello**, Università degli Studi di Salerno

Session 21 | Tables

Challenge | Kahoot! in Sanitary Environmental Engineering

h. 09:00 - 11:30

Session Chairs:
Domenico Giaquinto, Università degli Studi di Salerno
Vincenzo Marino, Università degli Studi di Salerno
Silvia De Paola, Università degli Studi di Salerno

This session offers a dynamic and engaging Kahoot-based challenge dedicated exclusively to Young participants. Centred on key topics in Sanitary Environmental Engineering, the activity blends scientific rigour with gamified learning. Participants will compete in real time by answering a series of curated technical questions designed to stimulate critical thinking and test their knowledge across water, waste, air quality, and remediation. Questions will vary in difficulty and will be drawn from real-world research and engineering scenarios. The session is designed to be fast-paced, inclusive, and fun, promoting both learning and interaction. Final rankings will be announced at the end, with prizes awarded to the top-scoring teams.

Session 22 | Main Room

Planary Session | Closing and Award Ceremony

Session Chairs:
Vincenzo Naddeo, Università degli Studi di Salerno
Mariachiara Zanetti, Politecnico di Torino

15:00 – 16:00	Enhancing Cultural Heritage for a Sustainable Future: The Role of the Paestum & Velia Archaeological Park **Tiziana D'Angelo**, Paestum & Velia Archaeological Park, Director
	Institutional Remarks Address by the newly elected President of ANDIS Address by the newly elected President of GITISA
	Awards Ceremony Outstanding Contributions by Early Career and Young Researchers • LEGO Environmental Tech Award • Kahoot! in Sanitary Environmental Engineering Award • Scienze Young Talent Award • RSC Environmental Science Awards – Emerging Talent Recognition • One Earth Award – Excellence in Sustainability Research • Nature Water Award – Outstanding Early Career Contribution
	Congress Highlights & Final Remarks

Social Events & Guided Tours

GITISA Young 2025 is not just a scientific congress – it is a celebration of community, culture, and connection. The programme includes exclusive social events and curated experiences designed to foster informal networking, intellectual exchange, and lasting memories.
On the evening of 3 June, all participants are invited to a vibrant welcome aperitif at sunset, held directly on the beach. This scenic, relaxed setting will host a unique networking initiative: thematic corners, each dedicated to one of the four macro-topics of the congress:

- Water and Wastewater Management & Reuse
- Waste, Energy and Circular Economy
- Air Quality and Climate Change
- Contaminated Sites and Environmental Assessment

These thematic areas will be clearly marked along the beach venue. Participants interested in meeting peers working in the same domain are warmly encouraged to gather in the corresponding corner. With a cocktail in hand and feet in the sand, researchers can initiate fruitful conversations, exchange ideas, and make new professional connections in an informal yet intellectually engaging atmosphere.

On 4 June, the Social Dinner at Oleandri Resort will bring the entire community together for a memorable evening of conviviality, celebration, and shared ambition.

Beyond the social programme, two guided tours are included in the registration:

- Technical Visit (5 June, 09:00 AM)
  Departing from the venue, participants will visit the newly upgraded Coda di Volpe wastewater treatment plant, gaining insight into cutting-edge technologies of strategic relevance.
- Cultural Tour (5 June, approx. 4:30 PM)
  Following the closing ceremony, a guided exploration of the Paestum Archaeological Park will offer a journey through the ancient temples and timeless heritage of this UNESCO World Heritage Site.

Access to all social events and tours is granted with the congress badge. Delegates who have purchased individual meals (instead of the full registration package) will receive access instructions from the staff upon arrival.

For further information, please contact the conference desk during on-site registration or visit www.gitisayoung.it.

Building a Connected and Recognisable Community

As part of its dynamic and forward-thinking approach, GITISA Young 2025 has developed a distinctive visual identity that is both professional and youth-oriented-aligned with the innovative spirit of the initiative. This identity is reinforced by a series of interactive communication channels designed not only to inform, but also to foster ongoing engagement and community building. These include an official **LinkedIn** page, a curated **Spotify** playlist, a dedicated **WhatsApp** channel, and this **Substack** newsletter.

Together, these tools form a vibrant ecosystem that accompanies participants throughout every phase of the congress—before, during, and after the event—facilitating constant updates, meaningful dialogue, and long-lasting professional connections. By enabling real-time interaction, shared inspiration, and visibility within the scientific community, this integrated communication strategy reflects the congress's broader mission: to empower the next generation of environmental engineers and to consolidate a cohesive, collaborative network of young researchers across Italy and beyond.

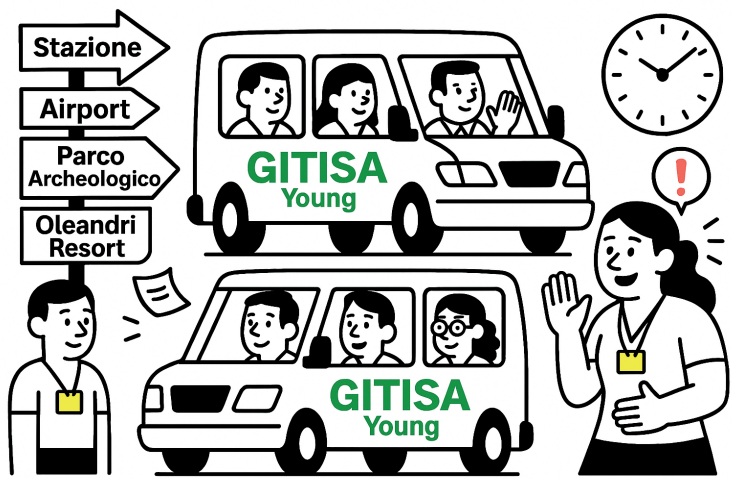
Shuttle Service

A dedicated shuttle service is available for all registered participants of GITISA Young 2025, providing convenient transportation between the Oleandri Resort (the congress venue) and key locations in Paestum — including the Station, Salerno Airport, and the Archaeological Park. The service is included in the congress registration fee. To board the shuttle, participants must show their congress badge.

For full details on shuttle timetables, routes, and pick-up/drop-off points, please visit the dedicated page on the official congress website: www.gitisayoung.it/come-raggiungerci

For direct assistance:

- before the congress, please contact the secretariat by email at info@gitisayoung.it.
- during the congress, please contact Lorenzo Raso at + 39 380 171 5000



The Italian Group of Sanitary Environmental Engineering (GITISA)

The GITISA - Italian Group of Sanitary Environmental Engineering – is the association of university academics affiliated with the Scientific Disciplinary Sector (SSD) known as "Sanitary Environmental Engineering", currently active in more than 35 Italian Universities. The academic and research activities within this sector encompass: the engineering aspects of environmental protection and pollution prevention; the design, impact assessment, construction, and management of facilities for wastewater treatment and drinking water purification; as well as infrastructure and plants for the treatment and disposal of solid waste and gaseous emissions. Furthermore, it incl udes interventions for the remediation and reclamation of contaminated sites. GITISA fosters and enhances teaching and research through the coordination of working groups, assemblies, and meetings, and actively contributes to the organisation of conferences, symposia, and summer schools, in collaboration with both national and international scientific institutions and associations. Within GITISA, young researchers—PhD candidates, research fellows, and grant holders—play a central role. GITISA Young is the event specifically dedicated to them. This initiative is designed to offer a stimulating environment for the exchange of ideas, the development of professional networks, and academic and career advancement, through opportunities for scientific dialogue and interaction with leading experts in the field.

According to data from the Ministry of University and Research, as of May 2025, the Scientific Disciplinary Sector ICAR/03 includes **40** full professors, **61** associate professors, **2** permanent researchers, **8** researchers RTDB, and **20** researchers RTDA, for a total of **131** faculty members distributed across **37** Italian universities.

Istituto Universitario di Studi Superiori di Pavia
- Prof. Sarigiannis Dimosthenis (Associato confermato)

Politecnico di Bari
- Prof. Ranieri Ezio (Associato)
- Prof. Spasiano Danilo (Associato)
- Dr. Ferraro Alberto (RTDB)

Politecnico di Milano
- Prof. Canziani Roberto (Ordinario)
- Prof. Cernuschi Stefano (Ordinario)
- Prof. Malpei Francesca (Ordinario)
- Prof. Antonelli Manuela (Associato)
- Prof. Azzellino Arianna (Associato)
- Prof. Ficara Elena (Associato)
- Prof. Grosso Mario (Associato)
- Prof. Lonati Giovanni (Associato)
- Prof. Rigamonti Lucia (Associato)
- Prof. Saponaro Sabrina F.G. (Associato)
- Dr. Turolla Andrea (Associato)
- Dr. Sezenna Elena (Ricercatore)
- Dr. Cantoni Beatrice (RTDA)
- Dr. Dolci Giovanni (RTDA)

Politecnico di Torino
- Prof. Sethi Rajandrea (Ordinario)
- Prof. Fiore Silvia (Ordinario)
- Prof. Tiraferri Alberto (Ordinario)
- Prof. Zanetti Mariachiara (Ordinario)
- Prof. Casasso Alessandro (Associato)
- Prof. Comino Elena (Associato)
- Prof. Panepinto Deborah (Associato)
- Prof. Riggio Vincenzo (Associato)
  Prof. Ruffino Barbara (Associato)
- Prof. Tosco Tiziana A. E. (Associato)
- Dr. Campo Giuseppe (RTDB)
- Dr. Bianco Carlo (RTDA)
- Dr. Bianco Isabella (RTDA)
- Dr. Grisolia Giulia (RTDA)
- Dr. Ravina Marco (RTDA)

Scuola Superiore Sant'Anna
- Prof. Niero Monia (Associato)

Università degli Studi di Enna "Kore"
- Prof. Di Bella Gaetano (Ordinario)
- Dr. Campo Riccardo (RTD)

Università degli Studi della Basilicata
- Prof. Mancini Ignazio Marcello (Ordinario)
- Prof. Masi Salvatore (Ordinario)
- Prof. Caniani Donatella (Associato)
- Dr. Di Capua Francesco (RTDB)

Università degli Studi della Campania "Luigi Vanvitelli"
- Prof. Panico Antonio (Associato)

Università degli studi dell'Insubria
- Prof. Conti Fabio (Ordinario)
- Prof. Torretta Vincenzo (Ordinario)
- Dr. Rada Elena Cristina (Associato)
- Dr. Morosini Cristiana (Ricercatore)

Università degli Studi di Bologna
- Prof. Fabio Fava (Ordinario)
- Dr. Borghi Francesca (RTDA)
- Dr. Martinez Gonzalo Agustin (RTDA)

Università degli Studi di Brescia
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- Prof. Sorlini Sabrina (Ordinario)
- Prof. Pedrazzani Roberta (Associato)
- Prof. Vaccari Mentore (Associato)
- Dr. Abba' Alessandro (RTDB)
- Dr. Domini Marta (RTDA)

Università degli Studi di Cagliari
- Prof. Carucci Alessandra (Ordinario)
- Prof. Muntoni Aldo (Ordinario)
- Prof. Cappai Giovanna Salvatorica (Associato)
- Prof. De Gioannis Giorgia (Associato)
- Dr. Asunis Fabiano (RTDA)
- Dr. Farru Gianluigi (RTDA)

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- Prof. Race Marco (Associato)
- Dr. Bianco Francesco (RTDA)

Università degli Studi di Firenze
- Prof. Lubello Claudio (Ordinario)
- Prof. Sirini Piero (Ordinario)
- Prof. Gori Riccardo (Associato)
- Prof. Munz Giulio (Associato)
- Dr. Lotti Tommaso (RTDA)

Università degli Studi di Ferrara
- Prof. Verlicchi Paola (Associato)

Università degli Studi di Genova
- Prof. Del Borghi Adriana (Ordinario)
- Prof. Gallo Michela (Associato)
- Dr. Gagliano Erica (RTDA)

Università degli Studi di Modena e Reggio Emilia
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- Prof. Bigi Alessandro (Associato)

Università degli Studi di Napoli Federico II
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- Prof. Fabbricino Massimiliano (Ordinario)
- Prof. Pirozzi Francesco (Ordinario)
- Prof. Cesaro Alessandra (Associato)
- Prof. Dessi' Paolo (Associato)
- Prof. Fortunato Luca (Associato)
- Prof. Papirio Stefano (Associato)
- Dr. Matassa Silvio (RTDB)
- Dr. Oliva Armando (RTDB)

Università degli Studi di Napoli Parthenope
- Prof. Lega Massimiliano (Associato)

Università degli Studi di Padova
- Prof. Lavagnolo Maria Cristina (Associato)
- Prof. Raga Roberto (Associato)
- Dr.Schiavon Marco (RTDB)
- Dr.Beggio Giovanni (RTDA)

Università degli Studi di Palermo
- Prof. Mannina Giorgio (Ordinario)
- Prof. Torregrossa Michele (Ordinario)
- Prof. Di Trapani Daniele (Associato)
- Dr. Corsino Santo Fabio (RTD)
- Dr. Antonio Mineo (RTDA)
- Dr. Capodici Marco (RTDA)

Università degli Studi di Parma
- Prof. Caserini Stefano (Associato)

Università degli Studi di Pavia
- Prof. Capodaglio Andrea Giuseppe (Associato)
- Prof. Callegari Arianna (Associato)
- Prof. Collivignarelli Maria Cristina (Associato)

Università degli Studi di Perugia
- Prof. Di Maria Francesco (Associato)

Università degli Studi di Roma "La Sapienza"
- Prof. Boni Maria Rosaria (Ordinario)
- Prof. Polettini Alessandra (Ordinario)
- Prof. Chiavola Agostina (Associato)
- Prof. Pomi Raffaella (Associato)
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Synergistic Project-Based Sessions at GITISA Young 2025

In line with the collaborative and interdisciplinary spirit of GITISA Young 2025, few sessions within the congress programme have been specifically designed to disseminate the results of international research projects. These sessions were not only thematically aligned with the congress but also structured to reflect the objectives and vision of the individual projects. Each project actively supported the organisation of its respective session by engaging consortium members and contributing speakers, ensuring a high level of scientific relevance and coherence.
Embedding these project-based sessions within the national congress framework has provided significant added value: it has enhanced the visibility of the research efforts and widened their reach to a broader audience of experts, young researchers, and key stakeholders.

The following sessions exemplify this integrated approach:

- **Session 5 | Air Quality and climate change.** Organised within the framework of the research project entitled "*Caratterizzazione e controllo del materiale particolato in aria ambiente: strumenti, tecniche ed interferenze*", funded under the Programme Agreement for Air Quality Protection between the Italian Ministry of the Environment and Energy Security (MASE) and the Campania Region (CUP B 21122000180001)
- **Session 7 | One Health**. Organized within the project "*Longevity & Fertility Algorithm (LAFA)*" (CUP: E63C22002030007), funded under Italy's National Recovery and Resilience Plan (PNRR), as part of the EU NextGenerationEU framework. Project code PE00000003, Concession Decree No. 1550 of 11 October 2022 adopted by the Italian Ministry of University and Research, Project title "ON Foods – Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods
- **Session 11 | Building, Energy and Climate Neutrality**. Organized within the project "*Joint Italian-German cooperation on net-zero construction materials*" (PGR12282, CUP: D44D23002350001), funded by Ministry of Foreign Affairs and International Cooperation (MAECI).
- **Session 15 | Advances in Membrane Treatment**. Organized within the project "*Electrochemical Membrane Bioreactors for Water Reuse and Hydrogen Fuel Recovery from Wastewater in the Textiles Industry*" (KR23GR05, CUP: D44D23000110001), funded by the Italian Ministry of Foreign Affairs and International Cooperation (MAECI).
- **Session 18 | Emerging Contaminants: PFAS and Microplastics**. Organized within the project "*Sustainable uPgraded WWTPs for resOurce recovery, water reuse and health surveillance in the Mediterranean region (SPOREMED)*" (Agreement 2322) under the PRIMA Programme, European Union.

The participation and contribution of these projects have not only enriched the scientific content of the congress, but have also supported its overall success in a truly synergistic manner.

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The European Water Association (EWA) is an independent non- governmental and non-profit making organisation dealing with the management and improvement of the water environment. As a major and influential European organisation representing water professionals, EWA promotes the sustainable management of the entire water cycle for Society´s needs, coupled with excellent service provided by informed
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