

THE CONFERENCE IS THE EIGHTH OF A SUCCESSFUL SERIES ENCOMPASSING ALL CLASSES OF SELF-HEALING MATERIALS, WHICH GATHERED RESEARCHERS FROM ALL AROUND THE WORLD STEERING RESEARCH IN THE EMERGENT FIELD OF SELF-HEALING. A BROAD SPECTRUM OF INDUSTRIES ARE IMPACTED AND REPRESENTED BY THE FIELD INCLUDING AEROSPACE, AUTOMOTIVE, TRANSPORTATION, MICROELECTRONICS, ARCHITECTURE, CIVIL ENGINEERING AND CONSTRUCTION, ELECTRONICS, MEDICINE.

PREVIOUS EDITIONS WERE HELD IN YOKOHAMA (JAPAN, 2019), FRIEDRICHSHAFEN (GERMANY, 2017), DURHAM, (USA, 2015), GENT (BELGIUM, 2013), BATH (UK, 2011), CHICAGO (USA, 2009), NOORDWIJK AAN ZEE (THE NETHERLANDS, 2007)

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ABSTRACTS

PROSPECTIVE AUTHORS ARE INVITED TO SUBMIT ABSTRACTS IN ENGLISH, 200-300 WORDS LONG, WITH THE TITLE OF THE PAPER, THE AUTHOR(S) - INCLUDING AFFILIATION(S) AND E-MAIL ADDRESS(ES) - AND THE TOPIC(S). SELECTED PAPERS WILL BE PUBLISHED IN THEMATIC SPECIAL ISSUES OF MAJOR INTERNATIONAL PEER REVIEWED JOURNALS.

REGISTRATION FEES

REGULAR	500*/600** EURO
STUDENT (BS, MS, PHD)	250*/300** EURO
ONLINE ATTENDANCE ONLY	250*/300** EURO
ACCOMPANYING PERSONS	250 EURO

(*) BEFORE MAY 15TH , 2022

(**) AFTER MAY 15TH , 2022

AT LEAST ONE AUTHOR PER PAPER MUST BE REGISTERED.

CONTACTS

VISIT THE OFFICIAL CONFERENCE WEBSITE FOR MORE INFORMATION: [HTTP://WWW.ICSHM2022.ORG](http://www.icshm2022.org)
OR CONTACT ICSHM-MILANO 2022 SECRETARIAT

ICSHM2022-DICA@POLIMI.IT

8TH INTERNATIONAL CONFERENCE ON SELF-HEALING MATERIALS ICSHM-MILANO 2022

CALL FOR ABSTRACTS



ORGANIZED BY

DEPARTMENT OF CIVIL AND ENVIRONMENTAL
ENGINEERING

in collaboration with

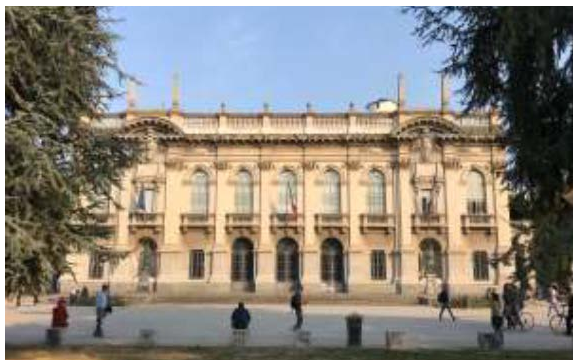
DEPARTMENT OF AEROSPACE SCIENCE AND
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ENVIRONMENT AND CONSTRUCTION ENGINEERING

DEPARTMENT OF CHEMISTRY, MATERIALS AND
CHEMICAL ENGINEERING "GIULIO NATTA"



POLITECNICO
MILANO 1863



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SMARTINCS

SELF-HEALING - MULTIFUNCTIONAL - ADVANCED REPAIR TECHNOLOGIES IN CEMENTITIOUS SYSTEMS



Horizon H2020 European Union Funding for Research & Innovation MARIE SKŁODOWSKA-CURIE ACTION

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IMPORTANT DATES

SUBMISSION OF ABSTRACTS	MARCH 31 ST 2022
ACCEPTANCE OF ABSTRACTS	APRIL 30 TH 2022
WORKSHOP	JUNE 20-22 2022
SOCIAL DINNER	JUNE 21 ST 2022

CONFERENCE TOPICS

THE CONFERENCE AIMS TO COLLECT AND TO DISSEMINATE THE LATEST RESULTS OF THE MULTIDISCIPLINARY INTERNATIONAL RESEARCH ON SELF-HEALING MATERIALS. THE CONFERENCE TOPICS WILL INCLUDE (NOT EXHAUSTIVE LIST):

- SELF-HEALING MATERIALS: CEMENTITIOUS, POLYMERS, CERAMIC AND METALS, COMPOSITE MATERIALS
- SELF-HEALING COATINGS AND PAINTS
- SELF-HEALING MATERIALS FOR FUNCTIONAL APPLICATIONS (INCLUDING SELF-SENSING)
- SELF-HEALING TRIGGERING MECHANISMS, INCLUDING PHYSICAL, CHEMICAL, OTHER TYPES
- SELF-HEALING TECHNOLOGIES: MINERAL ADMIXTURES, CAPSULES, FUNCTIONALIZED FIBERS/AGGREGATES, SHAPE-MEMORY POLYMERS /ALLOYS, BACTERIA, VASCULAR SYSTEMS
- BIO-INSPIRED MATERIALS
- CHARACTERIZATION METHODS FOR SELF-HEALING
- NUMERICAL MODELLING OF SELF-HEALING PROCESSES
- DURABILITY AND LONG-TERM PERFORMANCE OF SELF-HEALING MATERIALS AND ARTEFACTS
- REAL SCALE APPLICATION, SCALING-UP AND COMMERCIALIZATION ISSUES
- LIFE CYCLE ANALYSIS/SOCIETAL IMPACT OF SELF-HEALING MATERIALS

MIXED INTERDISCIPLINARY KEYNOTE LECTURES PROVIDING A STATE OF THE ART OVERVIEW ON HORIZONTAL TOPICS DELIVERED BY INTERNATIONAL LEADERS IN R&D ON THE CONFERENCE TOPICS WILL OPEN EACH CONFERENCE DAY.

POSTER PRESENTATIONS FOR PHD STUDENT PROJECTS WILL BE ORGANIZED WITH PRIZE FOR BEST PAPER AND PRESENTATION.

THE CONFERENCE IS ORGANIZED IN COLLABORATION WITH THE CONSORTIA OF TWO MAJOR EUROPEAN - COMMISSION FUNDED RESEARCH PROJECTS:

RESHEALIENCE (GA760824) AND THE MARIE SŁODOWSKA-CURIE ACTION SMARTINCS (GA 860006), WHICH HAVE GATHERED IN THE PAST FOUR YEARS THE MAJOR EUROPEAN UNIVERSITIES AND LEADING INDUSTRIES ENCOMPASSING THE WHOLE VALUE CHAIN OF SELF-HEALING CEMENTITIOUS MATERIALS.

WORKSHOP LANGUAGE

THE WORKING LANGUAGE OF THE WORKSHOP WILL BE ENGLISH, WHICH WILL BE USED FOR ALL PRESENTATIONS AND PRINTED MATERIALS.

VENUE

THE EVENT IS JOINTLY ORGANIZED BY FOUR DEPARTMENTS IN THE CAMPUS "LEONARDO DA VINCI" OF THE POLITECNICO DI MILANO CLOSE TO DOWNTOWN.

MILAN IS THE SECOND LARGEST CITY IN ITALY WITH ONE AND A HALF MILLION PEOPLE. ONCE THE CAPITAL OF ITALIAN HEAVY INDUSTRY, MILAN HAS NOW A VERY DIVERSIFIED ECONOMY BASED ON HIGH-TECH, FASHION, INFORMATICS, BIO-SCIENCES, HIGH EDUCATION, LOGISTICS AND FINANCE.

MILAN IS A PLACE WHERE RESIDENTS AND VISITORS ARE COMING FROM ALL THE CORNERS OF EUROPE AND FROM EVERY CONTINENT, FOR BUSINESS, CULTURE AND TRADE.

THE SKYLINE OF THE CITY HAS CHANGED TREMENDOUSLY IN THE LAST TWENTY YEARS, WITH THE CONSTRUCTION OF TWO ARCHITECTURALLY OUTSTANDING DISTRICTS (CITY LIFE AND PORTA NUOVA) FULL OF TALL BUILDINGS, THEATERS, EXCLUSIVE SHOPS AND SPACE TO WALK AND RELAX. THESE NOVELTIES INTEGRATE VERY WELL WITH SUCH RENOWNED PLACES AS THE GOTHIC CATHEDRAL (DUOMO), THE TEATRO ALLA SCALA AND THE GALLERIA VITTORIO EMANUELE, THE FIRST COVERED MALL IN THE WORLD BUILT AT THE END OF THE 19TH CENTURY!