

# ICDL 20<sup>th</sup> IEEE International Conference on Dielectric Liquids

June 23 - 27  
Roma, Italy



University of Roma "La Sapienza"  
Faculty of Civil and Industrial Engineering  
via Eudossiana 18 - Roma, Italy



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## Conference Scope

IEEE International Conference on Dielectric Liquids (ICDL) is a research-oriented conference focused on the exchange and discussion of ideas, results and practical experience of properties, dielectric phenomena and applications of insulating liquids. It addresses physicists, chemists, material scientists and electrical engineers who are engaged in the research and practical applications of such materials. The conference is the 20th in a series that, starting from now, is held every two years and is fully sponsored by the IEEE Dielectrics and Electrical Insulation Society (DEIS).

## Call for Papers

You are cordially invited to submit a one-page abstract to the 20<sup>th</sup> International Conference on Dielectric Liquids according to the following requirements:

- The abstract and paper should be written in English using the IEEE template
- One page abstract (no more than 500 words)

Accepted and presented papers will be published in the conference proceedings and submitted to IEEE Xplore as well as other indexing databases. The Conference proceedings will be also indexed by Scopus.

More information on [www.icdl2019.org](http://www.icdl2019.org)

## Hans Tropper Memorial Lecture

The first Hans Tropper Memorial Lecture was held in the 8<sup>th</sup> IEEE International Conference on Conduction and Breakdown in Dielectric Liquids in Pavia, Italy in 1984. It has since become a tradition of the IC DL conference series. The memorial lecture of the 20th International Conference on Dielectric Liquids will be held at the University of Roma "La Sapienza" in 2019. The speaker of the lecture is to be announced.

## Conference Topics

**Basic Properties and Fundamental Studies:** Dielectric properties, electrical conduction, charge transport, space charge effects, optical properties, dopant-environment interactions and spectroscopy, photoconductivity, photoionization, Kerr effect

**Electrical Discharges:** Pre-breakdown and breakdown phenomena, streamers, partial discharges, creeping discharge, streaming electrification

**Electro-hydrodynamics:** electro-hydrodynamic phenomena and their application, fluid mechanics, electrothermoconvection, electro-hydrodynamic pump

**Application and Performance of Dielectric Liquids in High Voltage Equipment:** Liquid based high voltage insulation systems, ageing and degradation, HVDC application, electrostriction pump, ester liquids, nano-fluids, cryogenic liquids

**Measurements, Monitoring and Diagnostic Techniques in High Voltage Equipment:** Partial discharge measurement, on-line monitoring and diagnostics, dissolved gas analysis, moisture measurement, frequency domain spectroscopy

The forthcoming edition of IC DL will include special sessions focused on the following items:

- synthetic and natural esters in TSO - DSO transformer applications;
- alternative gasses on SF<sub>6</sub> having much less greenhouse impact;
- electrodynamics in emerging applications.

## Visit to the Sistine Chapel in Vatican City



During the IC DL 2019, attendees and accompanying persons will be guided to visit the famous Sistine Chapel located downtown in Roma (Vatican City). The Sistine Chapel represents one of the most famous worldwide artistic masterpieces and its ceiling and the upper part of the walls were painted by Michelangelo (Final Judgment), Botticelli, Pinturicchio and Raphael starting from the beginning of the second half of the fifteenth century. Remarkable is also the Church of San Peter in Chains located next door from the Faculty of Engineering (location of the IC DL 2019) where the attendees will admire the Moses of Michelangelo which is one of the main treasures of art of all times.

## Contact Information

website: [www.icdl2019.org](http://www.icdl2019.org) email: [icdl2019@uniroma1.it](mailto:icdl2019@uniroma1.it) tel. +39.0221006.231-202



## Key dates

16 SEPTEMBER 2018 <b>31</b> OCTOBER 2018 New Deadline for abstract submission	19 NOVEMBER 2018 Notification of abstract acceptance	
21 JANUARY 2019 Deadline for manu- script submission	15 MARCH 2019 Notification of paper acceptance	23-27 JUNE 2019 Conference dates

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