



CONVEGNO NAZIONALE ACDC_Q 2026

MAGNETOMETRI PER LO SPAZIO E APPLICAZIONI EMERGENTI

Centro Spaziale ASI “Giuseppe Colombo” - Matera, 8/9 ottobre 2026



Funded by the
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Programma

Giovedì, 08/10/2026

- Ore 10:30 - Inizio lavori del Convegno ACDC_Q 2026: Presentazione del Convegno a cura della Dr.ssa Monia Vadrucci (ASI).

Interventi:

- Ore 10:55 - **Saverio Pascazio (UNIBA): “Quantum technologies”**
 - Ore 11:30 - **Giuseppe Maruccio (UNISALENTO): “Hybrid spintronic and magnetic platforms: from materials and devices to quantum sensing and the EMFL/IRIS infrastructure in Lecce”**
 - Ore 12:00 - **Andrea Candini (CNR-ISOF): “NV-Center in Diamond Quantum Sensors: from Material Engineering to Emerging Magnetometry Platforms”**
 - Ore 12:30 - **Alberto Ghirri (CNR-NANO): Probing magnetic fields and magnetic excitations at microwave frequencies using spin-based hybrid superconducting circuits**
(Chairwoman Dr.ssa Monia Vadrucci)
 - Ore 13:00 - Pausa pranzo
 - Ore 14:00 - Ripresa Convegno
- Interventi:
- Ore 14:00 - **Stefania Della Penna (UNICH): “Innovative Sensors for Biomagnetism”**
 - Ore 14:30 - **Luca Pellegrino (CNR-SPIN): “A Hybrid Superconductor/Nanomechanical Magnetic Field Detector for Biomagnetism”**
 - Ore 15:00 - **Carmine Granata (ISASI-CNR): “Superconducting quantum magnetic sensing”**
 - Ore 15:30 - **Francesco Ferraiuolo (CODEVINTEC): “Self-Compensating Magnetometry for Autonomous Marine Geophysical Surveys”**
(Chairman Prof. Riccardo Bertacco)

- Ore 16:00 - Pausa caffè
- Ore 16:30 - Ripresa Convegno
- Interventi:
 - Ore 16:30 - **Riccardo Bertacco (POLIMI): “Hybrid MEMS-magnetoresistive sensors”**
 - Ore 17:00 - **Alberto Riminucci (CNR-NANO): “All-electrical magnetic field quantum sensing with molecular spintronics”**
 - Ore 17:30 - **Francesco Minardi (UNIBO): “Ultracold Atoms in Hollow-core Fibers for Quantum Sensing”**
 (Chairman Dott. Andrea Candini)
- Ore 18:00 - Fine prima giornata del Convegno ACDC Q 2026

Venerdì, 09/10/2026

- Ore 09:10: Inizio seconda giornata del Convegno ACDC Q 2026
- Interventi:
 - Ore 09:10 - **Marco Coïsson (INRIM): “A traceable system for the calibration of magnetometers”**
 - Ore 09:40 - **Vito Giovanni Lucivero (UNIBA): “Optically pumped magnetometers: quantum sensing from biomagnetism to space”**
 - Ore 10:10 - **Riccardo Fenici (BACPIC): “Quantum Sensing with NV-Diamond: The Third Milestone in Magnetocardiography?”**
 (Chairwoman Prof.ssa Stefania Della Penna)
- Ore 10:40: Pausa caffè
- Ore 11:00: Ripresa Convegno
- Interventi:
 - Ore 11:00 - **Teresa Pellegrino (IIT): “Magnetic Nanoparticle and Magnetic Induction Heating: From Synthesis to Nanomedicine and Beyond”**
 - Ore 11:30 - **Francesca Cosmi (UNITS): “Monitoring the Bone Elastic Properties under Adaptive Neuromuscular Electrical Simulation (NMES)”**
 (Chairman Prof. Riccardo Fenici)
- Ore 12:00 - Chiusura Lavori del Convegno ACDC Q 2026: Conclusioni a cura della Dr.ssa Monia Vadrucci (ASI)

Attività post-Convegno:

- Ore 15:00 - ACDC_Q Project working group meetings e attività di coordinamento
- Ore 18:00 - Termine dei working group meetings

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