**INDEX**

**SICC SERIES – CBRNe CONFERENCE 2023 ..... 3**
**INTERNATIONAL SCIENTIFIC COMMITTEE ..... 5**
**NATIONAL SCIENTIFIC COMMITTEE ..... 7**
**LOCAL ORGANIZING COMMITTEE ..... 9**
**CONFERENCE VENUE ..... 10**
**CONFERENCE PROGRAM – TIMETABLE and PRESENTATIONS SCHEDULING ..... 11**
DAY 0 – Sunday 24 September 2023 - National Fire Academy (Rome) ..... 11
DAY 1 – Monday 25 September 2023 - National Fire Academy (Rome) ..... 12
DAY 2 – Tuesday of September 2023 - National Fire Academy (Rome) ..... 14
DAY 3 – Wednesday 27 September 2023 - National Fire Academy (Rome) ..... 16
DAY 4 – Thursday 28 September 2023 - National Fire Academy (Rome) ..... 18
DAY 5 – Friday 29 September 2023 - National Fire Academy (Rome) ..... 20
DAY 6 – Saturday 30 September 2023 – University of Rome Tor Vergata ..... 22
**PLENARY SESSIONS ..... 23**
PLENARY SESSION 1 ..... 23
HOW OLD AND NEW DANGERS CAN THREATEN THE WORLD: DISCUSSIONS AND PROPOSALS TO REDUCE RISKS ..... 23
PLENARY SESSION 2 ..... 27
IS IT POSSIBLE THAT NATURAL EVENTS AND NATURAL DISASTERS CAN ACT AS TRIGGERS FOR CBRNe EMERGENCIES? ..... 27
PLENARY SESSION 3 ..... 33
INTERNATIONAL COOPERATION, COUNTER PROLIFERATION, COMMUNICATION AND TECHNICAL SOLUTIONS TO PREVENT CBRNe DANGEROUS SCENARIOs ..... 33
**TECHNICAL SESSIONS ..... 39**
Technical Session 1 - Emergency management ..... 39
Technical Session 2 - Geopolitical, economical, and legal aspects related to CBRNe events and International Cooperation ..... 49
Technical Session 3 - Cybersecurity, artificial intelligence, data mining, big data analysis, and DSS applied to CBRNe ..... 54
Technical Session 4 - CBRNe training and education: classic approaches and modern ones through virtual and augmented reality and serious games ..... 63
Technical Session 5 - CBRNe medical emergencies, first aid, and pandemics management ..... 72
Technical Session 6 - Emergency communication and psychology ..... 79
Technical Session 7 - Safety, security, and strategies to protect critical infrastructures, numerical simulation, and methods for risk assessment and reduction ..... 84
Technical Session 8 - Radiological and Nuclear events: methods, instrumentation, protection/decontamination, and technological developments ..... 92
Technical Session 9 - Chemical and explosive events: methods, instrumentation, protection/decontamination, algorithms and technological developments ..... 105
Technical Session 10 - Biological events and pandemics: methods, algorithms instrumentation, protection/decontamination, and technological developments ..... 114
Technical Session 11 - CBRNe intelligence and forensic aspects ..... 123
Technical Session 12 - CBRNe new risks and challenges provoked by climate change, war, terrorism, local conflicts and food security ..... 130
**POSTER SESSIONS ..... 139**
Poster Session 1 ..... 139
Poster Session 2 ..... 156
**INDUSTRIAL EXHIBITION - SICC 2023 ..... 172**
**LARIMART – SILVER SPONSOR ..... 173**