

ICOLD 27th Congress - 89th Annual Meeting - Marseille (France) - 5 to 11 June 2021

Forsendelse av artikler til ICOLD 27th Congress - 89th Annual Meeting - Marseille (France) foregår via NNCOLD.

Meld deg til gog@nve.no dersom du har tenkt å skrive en artikkel for å få nærmere regler og instruksjoner for layout og størrelse for artikkel.

Artikler til må leveres til NNCOLD senest 5.9 2020 til NNCOLD, gog@nve.no.
NNCOLD må levere ferdige og kontrollerte artikler videre til ICOLD Central Office senest 5.10.2020.

Artikler skal dekke temaer nedenfor. Noter i meldingen til NNCOLD tema har du valgt.

104 - CONCRETE DAM DESIGN INNOVATION AND PERFORMANCE

- a/ Innovations for arch dam analysis, design and construction; including RCC arch and arch-gravity dams.
- b/ Innovations for design, construction materials and placement methods, flood management during construction and performance of concrete dams, including RCC and cemented material dams.
- c/ Innovations for raising existing concrete dams.
- d/ Innovations for extremely high concrete dams.
- e/ Operational performance of concrete dams during the life cycle, including under extreme conditions.

105 - INCIDENTS AND ACCIDENTS CONCERNING DAMS

- a/ Recent lessons from incidents and accidents concerning dams during the life cycle, including during construction.
- b/ Evaluation of the flows and flood, estimation and quantification of the consequences, including social, economic and environmental aspects, in case of failure or incidents
- c/ Emergency planning: regulation, organisation, information of the population and examples of implementation.
- d/ Governance of the safety: definition of the responsibilities, periodic reviews, implementation tests, organisation of lessons learned implementation.

106 - SURVEILLANCE, INSTRUMENTATION, MONITORING AND DATA ACQUISITION

- a/ Long term performance of existing surveillance systems including reliability and accuracy; importance of visual inspections.
- b/ New technologies in dam and foundation instrumentation and monitoring.
- c/ Data acquisition and processing to evaluate the behavior of dams, predict and identify incidents.
- d/ Understanding and handling of large quantity of data, including artificial intelligence approach.

107 - DAMS AND CLIMATE CHANGE

- a/ Impacts of climatic change on existing dams and reservoirs and remedies; case studies and costs.
- b/ Impacts of climatic change on needs and designs of dams, reservoirs and levees (water storage, floods mitigation, oceans raising...).
- c/ Favourable impacts of dams on climatic change, including greenhouse gases reduction by optimisation of hydroelectric production. Needs, potential and cost of energy pumped storage.
- d/ Unfavourable impacts of dams and reservoirs on climatic change: evaluation of greenhouse gases emissions by reservoirs and dam construction.

