

WFEO - CDRM

World Federation of Engineering Organizations
STANDING TECHNICAL COMMITTEE ON DISASTER RISK MANAGEMENT

Newsletter
October 2021 edition

Resilience is the key word today

Natural hazards have increased with time. Those originated in the Earth interior, such as earthquakes and volcanic eruptions look in steady-state, while those born on-and-above surface show the influence of global warming. Thus, extreme weather events of temperature and precipitation are increasing in frequency and intensity. In the last two years we have witnessed strong cyclones, storms, heat waves, consequent floods, flows, bushfires, blizzards; including biological hazards as plagues and epidemics topping of course with the Covid-19 pandemic.



Social conditions and dynamics related to population growth, as cities' expansion, inappropriate land use, exposed and fragile building, or weak organization, increase vulnerability and risk of people and infrastructure.

Risk science and engineering have attained a high development level, and have the capability to reduce risk and avoid disasters. However, as they are not always accessible, especially to lower income countries, the international cooperation is needed to help making update knowledge and techniques available worldwide.

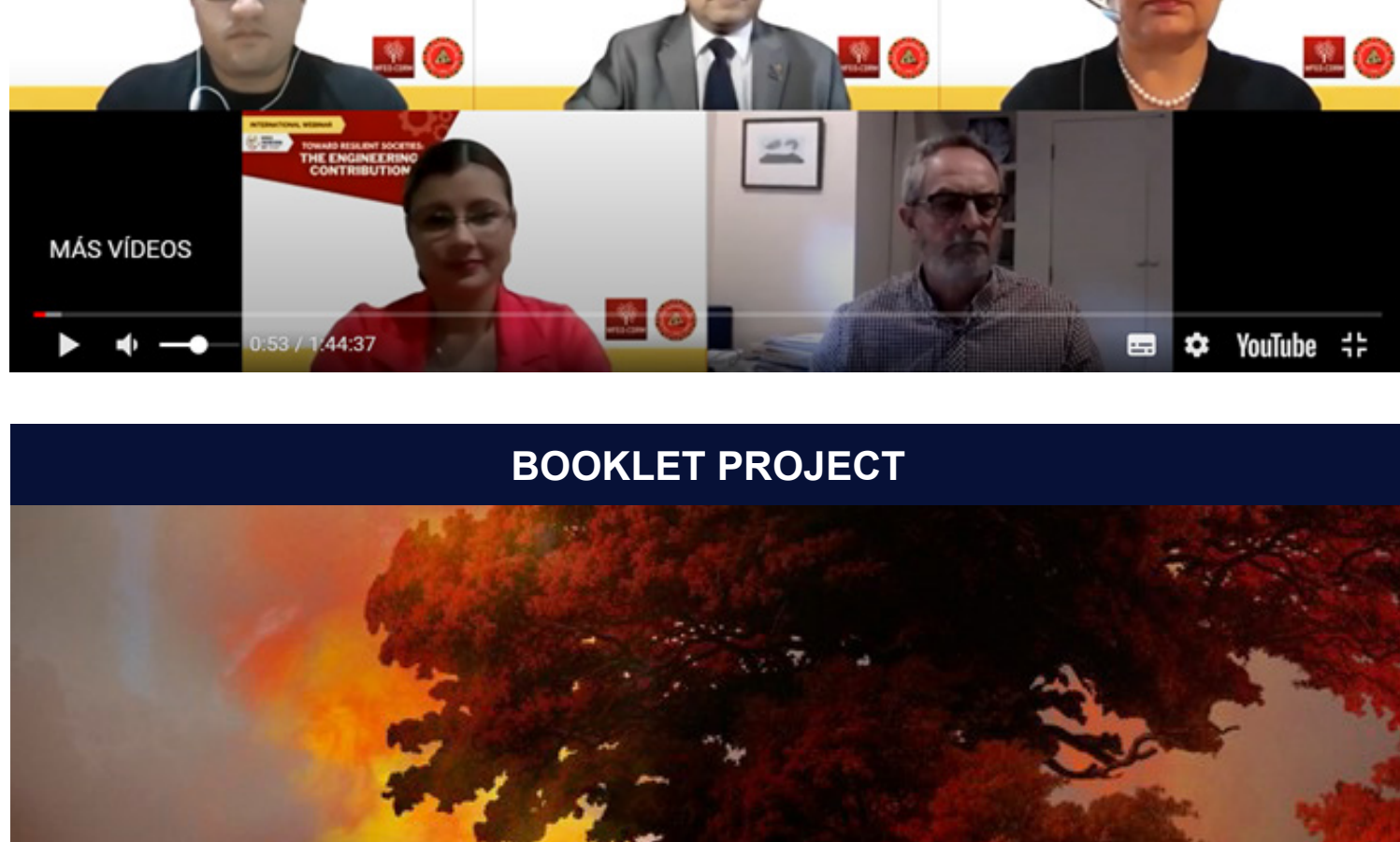
The WFEO Committee on Disaster Risk Management organizes seminars, courses, publications, and videos intended to share that knowledge and best practices, and to increase public awareness on the natural and man-made risks. The final goal is contributing to achieve sustainable and resilient societies.

World Engineering Day 2021

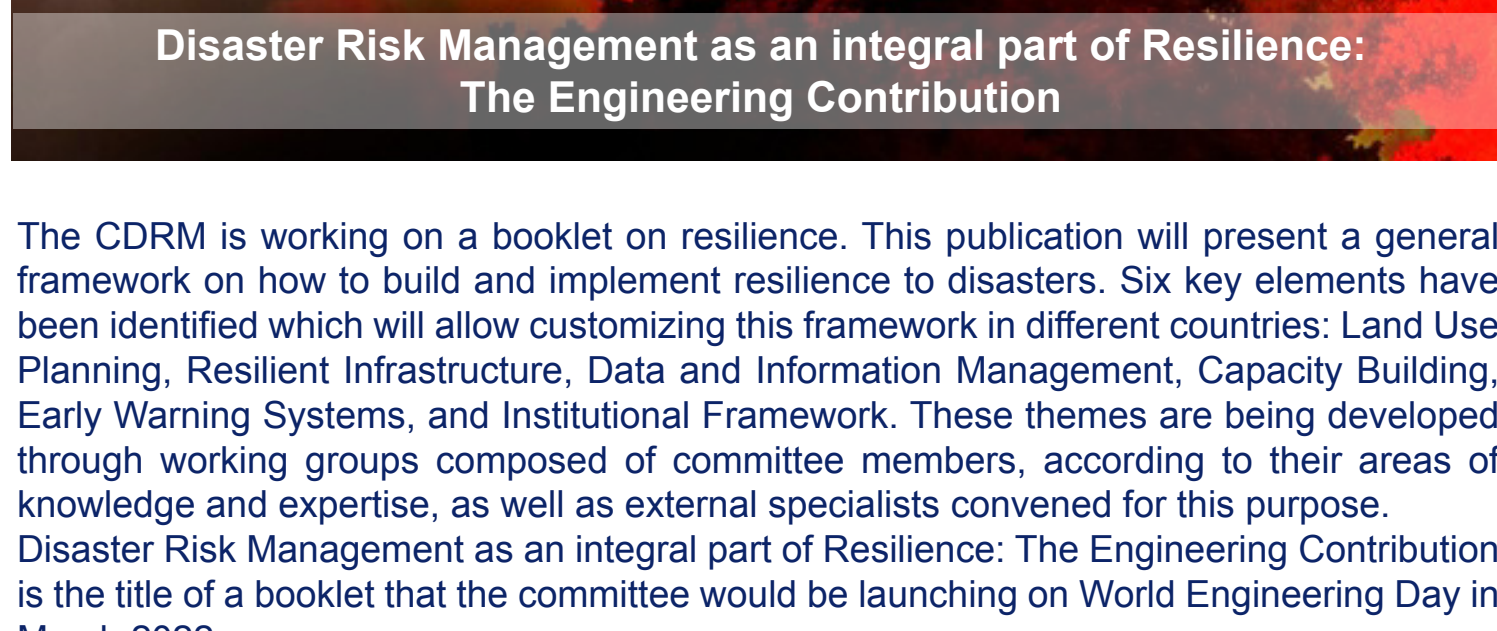


In the framework of the World Engineering Day celebrated on 4 March 2021, CDRM organized the **international webinar "Toward Resilient Societies: The Engineering Contribution"** which took place on 9 March. The achievement of SDG11: Make cities inclusive, safe, resilient and sustainable, is in the core of CDRM concern. Speakers presented case studies from Hong Kong, New Zealand and Costa Rica. Prof Gong Ke, WFEO President and Dr. Marlene Kanga WFEO Immediate Past President made opening remarks on the importance of engineering for disaster resilience and for sustainable development.

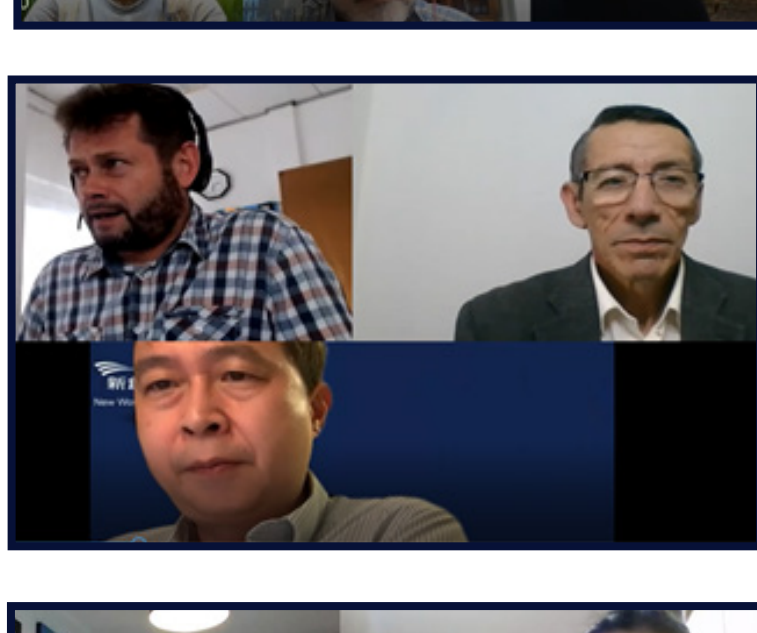
<https://www.cip.org.pe/events/dia-mundial-de-la-ingenieria/>
<https://www.youtube.com/watch?v=cRx6oeRcw4&t=138s>



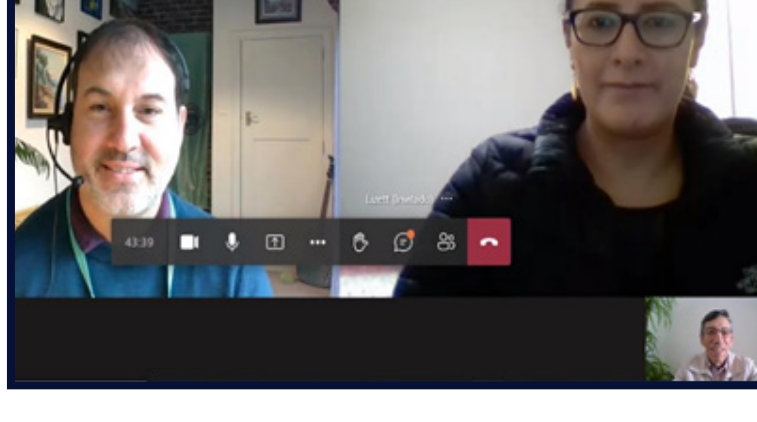
BOOKLET PROJECT



The CDRM is working on a booklet on resilience. This publication will present a general framework on how to build and implement resilience to disasters. Six key elements have been identified which will allow customizing this framework in different countries: Land Use Planning, Resilient Infrastructure, Data and Information Management, Capacity Building, Early Warning Systems, and Institutional Framework. These themes are being developed through working groups composed of committee members, according to their areas of knowledge and expertise, as well as external specialists convened for this purpose. Disaster Risk Management as an integral part of Resilience: The Engineering Contribution is the title of a booklet that the committee would be launching on World Engineering Day in March 2022.



Resilient Infrastructure WG



Capacity Building WG



Land Use Planning WG



Institutional framework WG



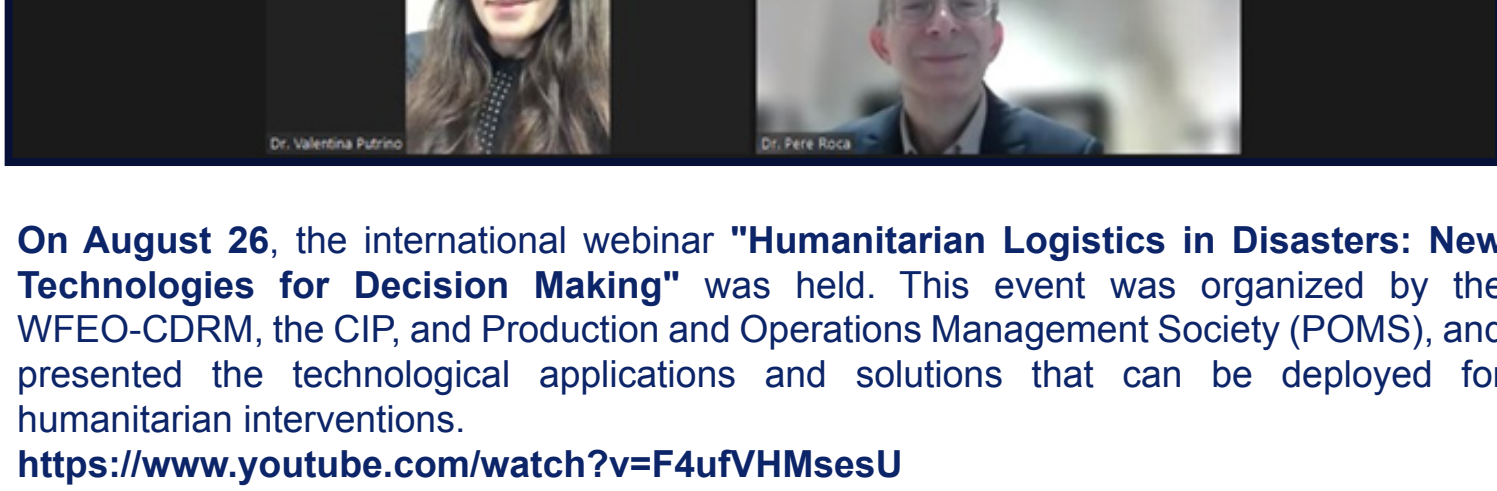
Data Management WG

RECENT ACTIVITIES

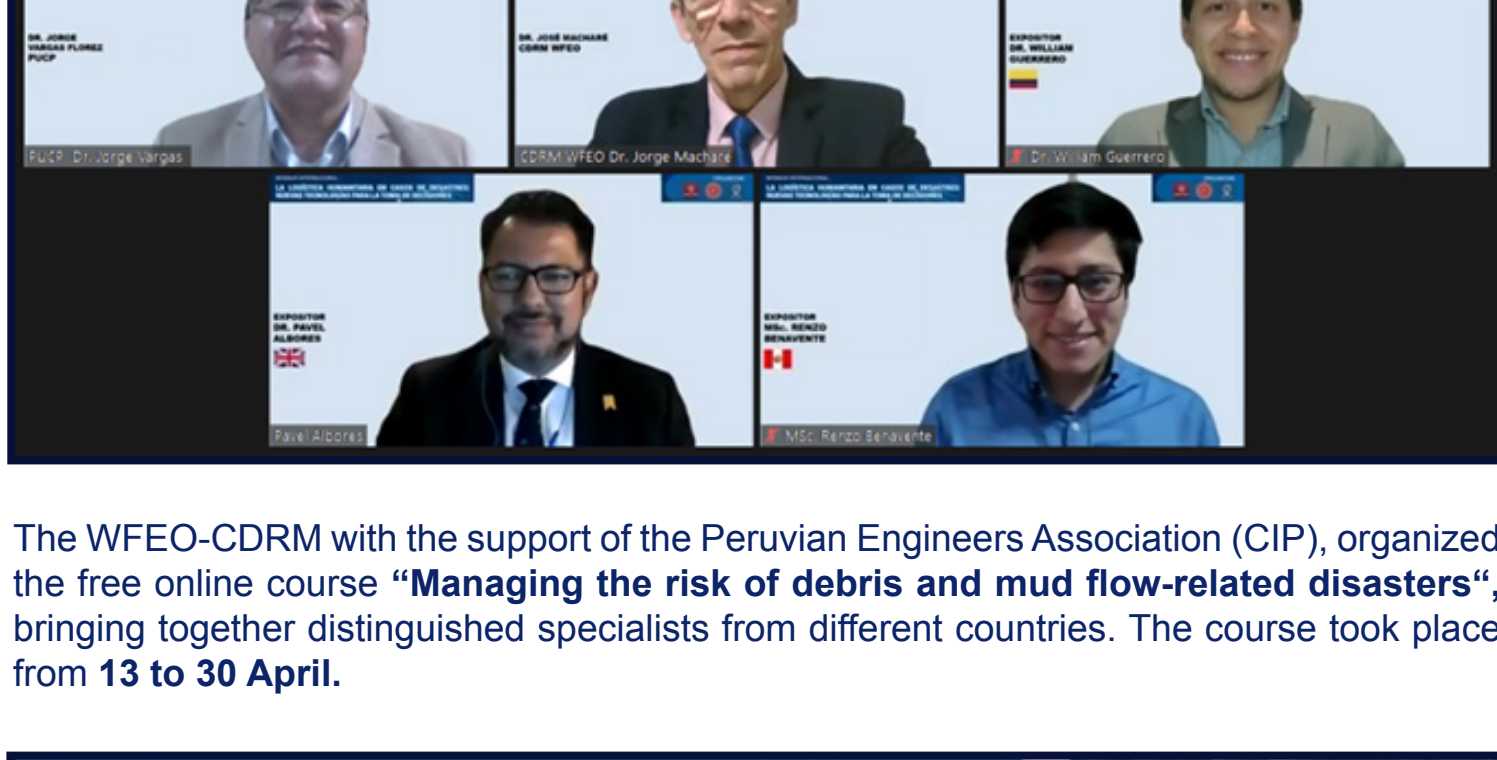
To celebrate the **International Day for Disaster Risk Reduction, on October 13**, the committee shared a video on the subject. This date is an opportunity to acknowledge the progress being made toward reducing disaster risk and losses in lives, livelihoods and health. The CDRM reiterated its commitment to advance this global effort, working on SDG Goal 11 regarding Sustainable Cities and Communities.
<https://www.youtube.com/watch?v=QsdAdEGR3xM>



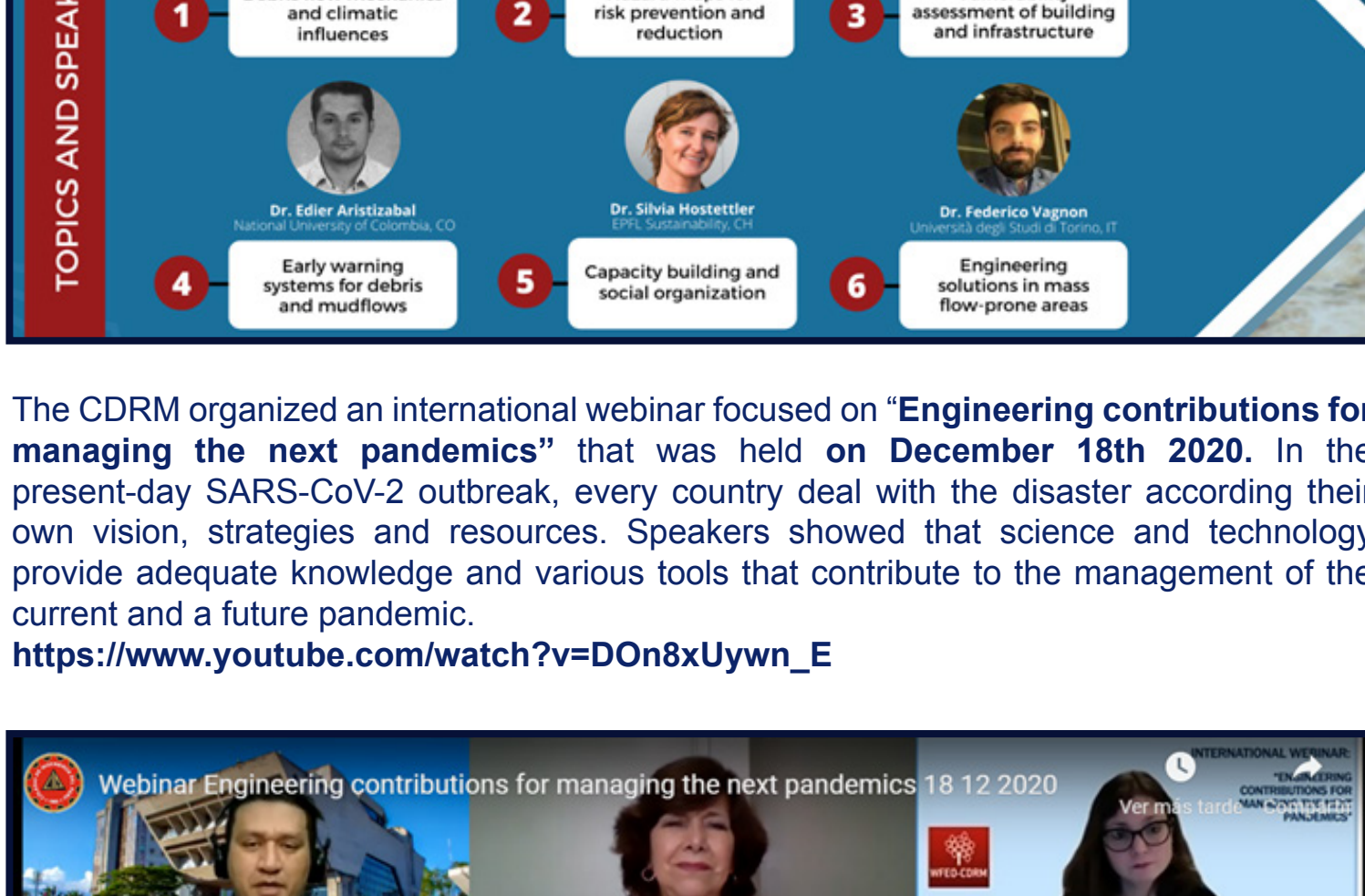
The WFEO-CDRM, the Peruvian Engineers Association (CIP), the University College London (UCL), the EPICentre, the International Scientific Committee on the Analysis and Restoration of Structures of Architectural Heritage (ISCARSAH) and the National Academy of Sciences of Peru joined forces to organize the international webinar **"Strengthening Efforts to Protect and Safeguard the World's Cultural and Natural Heritage"**, which took place on **October 7**.
<https://www.youtube.com/watch?v=LI-bhgQY9XA>



On **August 26**, for the international webinar **"Humanitarian Logistics in Disasters: New Technologies for Decision Making"** was held. This event was organized by the WFEO-CDRM, the CIP, and Production and Operations Management Society (POMS), and presented the technological applications and solutions that can be deployed for humanitarian interventions.
<https://www.youtube.com/watch?v=F4ufVHMsU>



The WFEO-CDRM with the support of the Peruvian Engineers Association (CIP), organized the free online course **"Managing the risk of debris and mud flow-related disasters"**, bringing together 30 distinguished specialists from different countries. The course took place from **13 to 30 April**.



The CDRM organized an international webinar focused on **"Engineering contributions for managing the next pandemics"** that was held on **December 18th 2020**. In the present-day SARS-CoV-2 outbreak, every country deal with the disaster according their own vision, strategies and resources. Speakers showed that science and technology provide adequate knowledge and various tools that contribute to the management of the current and a future pandemic.
https://www.youtube.com/watch?v=DO8xUywn_E

