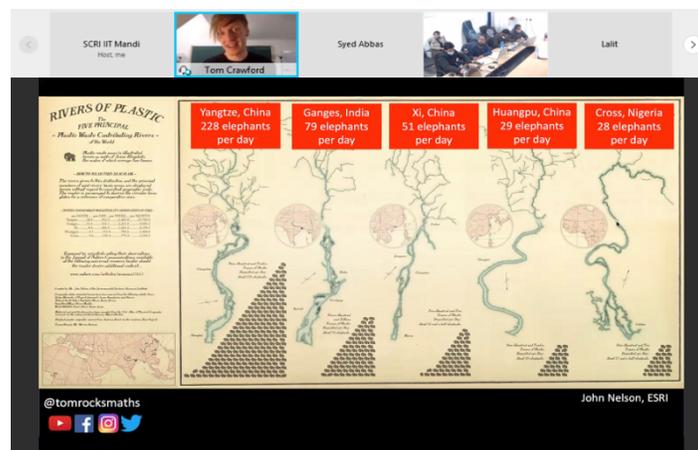


SCRI talk on “Using Maths to Clean up our Ocean” by Dr. Tom Crawford (University of Oxford)

SCRI (Society for Collaborative Research and Innovation) IIT Mandi organized a virtual talk on “Using Maths to Clean up our Ocean” by Dr. Tom Crawford on 15th January 2021. In this talk speaker tries to answer the following question:

Where does river water go when it enters the ocean?

By creating a mathematical model for river outflows – verified by laboratory experiments and fieldwork – the goal was to be able to predict which areas are most susceptible to pollution from rivers and thus coordinate clean-up operations as effectively as possible. In this talk, he also shared some of the experimental videos to show his work in the lab.



Dr. Tom Crawford during his talk

Tom is an Early Career Teaching and Outreach Fellow in Mathematics at St Edmund Hall and is also responsible for the teaching of Visiting Students.

Tom specializes in Applied Mathematics and completed his PhD in Fluid Dynamics at the University of Cambridge under the supervision of Prof. Paul Linden. He obtained his undergraduate degree in Mathematics from Oxford in 2012 where he studied at St John’s College.

Alongside his teaching commitments, Tom works closely with the outreach team at Teddy Hall and regularly gives talks in schools and universities across the UK. His award-winning website tomrocksmaths.com hosts [videos](#), [podcasts](#), puzzles and [articles](#) that aim to make mathematics entertaining and understandable to all. Tom works with several partners including the BBC and the [Numberphile YouTube channel](#) – the largest mathematics education channel on the platform with over 3.5-million subscribers.

During the talk, all SCRI core members were present virtually. Mr. Apoorav Singh Deo (SCRI Coordinator) started the session with a short introduction of Society for Collaborative Research and Innovation and its working. Dr. Syed Abbas (Associate Prof. SBS) introduced speaker to the audience and gave a motivational speech about the usefulness of applied mathematics.



SCRI core members taking questions from the audience after the talk

After the talk Mr. Manoj Kumar (SCRI Coordinator) and other core members Mr. Sahil Walia, Mr. Ravi Pippal and Ms. Deepanshi took questions from the audience. In the end, Ms. Shriya Srivastava gave vote of thanks to conclude the event. SCRI received a great feedback from the students especially from first year students after the talk. SCRI will keep organizing these types of research talks to promote interdisciplinary research among different scientific communities.