MASTS Annual Science Meeting (ASM) 2020 - 5-9th October

"*MASTS - A decade of innovation" - CALL FOR TALK ABSTRACTS*

#MASTSasm2020

We can't wait for you to join us! This cross-disciplinary online meeting brings together members of the global marine science community, with the aim of promoting and communicating research excellence and forging new scientific collaborations.

The 2020 ASM will see MASTS celebrate its tenth annual conference. We will look back at the significant progress made by our partners and collaborators, and look forward to 2021, which sees the start of the decade of ocean science for sustainable development. We will examine the modern challenges that face our marine waters, and identify ways and means to conserve and sustainably use the oceans, seas and marine resources for sustainable development.

This year the ASM will be an online event. We will spread over five days (not the normal three days) and use pre-recorded talks, which will be much shorter, to ensure online fatigue is not an issue.

ABSTRACT SUBMISSION

Abstracts are invited for 'sessions' that will be in the form of seven 5-6 minute pre-recorded 'flash talks' (i.e. online video/powerpoints/animation), followed by a live Q&A session within which all the speakers will be panel members.

Your audience may not be experts in your field of study, so please bear this in mind and ensure your talk and abstract is accessible to others (i.e. by avoiding jargon and keeping technical details simple). However, you can be as creative as you would like!

Abstracts can be submitted to one of the following sessions (further details below):

- General Science Session
- Governing Scottish Seas: theory, practice and future horizons
- Structures in the Marine Environment
- Marine Climate Change
- Coastal ecosystem-based solutions: Climate-change adaptation and mitigation
- Multiple Marine Stressors
- Sustainable Aquaculture
- Marine Biogeochemistry
- Marine Science Technologies & Methodologies

We request that submissions to give a talk at this year's ASM provide both a tweetable abstract as well as a traditional abstract. This will allow the ASM organisers to contribute towards the promotion of your talk and the event on Twitter and other social media. Further details are provided at the end of this document about tweetable abstracts. Speakers will also be asked to provide a 30-60 second pre-recorded video abstract of their talk for promotional purposes.

Timeline and deadlines

Abstract submission to masts@st-andrews.ac.uk	**16:00 Friday 14th August**
Review abstracts by science teams	17-28th August
Speakers will be notified whether their abstract has been selected to give a talk. Speakers will be provided with guidance about producing the video abstract and flash talk	Early September
Deadline for speakers to provide a 30-60 second pre-recorded video abstract of their talk.	**16.00 on Wednesday 16th September**
Deadline for speakers to provide their pre-recorded 'flash talk'	**16.00 on Wednesday 23rd September**

SESSION DETAILS

General Science Sessions

These sessions are composed of presentations in any area of marine science (so anything from socio-economics, fisheries, technology, marine mammals, biodiversity, PMFs, human impacts, MPAs, bacteria, modelling, algae etc.). Presentations should be tailored to a scientific but non-specialist audience and are an excellent way of promoting your science and the possibilities to collaborate.

Governing Scottish Seas: theory, practice and future horizons

Session Convenors: Dr T A Stojanovic (University of St Andrews) & Dr T Potts (University of Aberdeen)

The session is sponsored by the MASTS Marine Planning and Governance Forum.

The aim of our session is to build an understanding of diverse conceptual and applied approaches to a greater appreciation and realisation of ocean and coastal governance across different scales and sectors. The 'lens' used for this session is one of 'marine social sciences', which broadly focuses on how people view, value and engage in marine governance in planning. As such, this session invites contributions that examine to what degree marine governance and social sciences can contribute to policy, action and understanding the achievement of environmental and social goals.

In particular we invite contributions on the governance, planning and management of Scottish seas as considered through the disciplines of environmental economics, environmental psychology, geography, law, planning, political science, or sociology. However, given the inherently interdisciplinary nature of marine governance, requiring and understanding of biophysical and social domains, we also welcome contributions which bridge the natural-social science divide, e.g. though approaches such as sustainability science, resilience and, or multi-disciplinary science. Authors

should keep in mind they will be presenting to a multidisciplinary audience, which will benefit from clarity on your overall research approach and design at the start of your presentation.

While it is envisaged contributions will profile reviews of conceptual approaches, applications or findings with an emphasis on 'Scottish Seas' they could also be comparative in approach drawing on other nations and jurisdictions that are somehow relevant to the Scottish contexts. Either way, speakers should close their talk with some reflections on the potential implications for managing Scottish seas.

Following on from the session and flash-talks on the relevant evening, the MASTS Marine Planning & Governance Forum will host an evening online 'virtual wine bar' event 40 minute moderated discussion drawing upon the day's papers and flash talks, which will focus on the following key questions:

1. How can the different social science disciplines add value to progress marine governance?

2. Which concepts or approaches offer the best traction or insights for understanding implementation in Scottish Seas?

In closing, it is hoped that an overall outcome from this session is to showcase different approaches to scholarship on marine governance, and to inspire interdisciplinary dialogues about how marine social science can contribute to practical planning and management for Scotland's seas and beyond.

Structures in the Marine Environment

Session Convenors: Dr R Heard (INSITE), Dr R Miller (University of the Highlands & Islands) & Dr S Rouse (Marine Scotland Science)

Papers can be offered in any field of study within the context of offshore man-made structures and the impact their presence or removal may have on related ecosystems. This can include, but is not exclusively limited to, connectivity, modelling, temporal/spatial interactions, environmental and climate impacts, data handling/availability, ecology and habitat, geochemistry, physics, decision-making, species/community interactions, and ecosystem function etc. Presenters are encouraged to not solely focus on past and current research but reflect on gaps of knowledge and future research directions. Studies need not only be from the North Sea as learning from other regions is also very useful.

Marine Climate Change

Session Convenor: Dr B Berx (Marine Scotland Science)

The session is sponsored by the MASTS Marine Climate Change Forum.

The MASTS Marine Climate Change Forum invites presentations on all aspects of climate change science in the marine environment from the MASTS community. Many in the MASTS community are already active in researching the evidence and impacts of climate change in the marine environment

across Scotland and globally, how we could adapt to them as a society, and what activities can help us reduce our Greenhouse Gas (GhG) emissions. Presentations are invited from –but most certainly not limited to - topics such as ocean warming, ocean acidification, ocean de-oxygenation, as well as marine biodiversity loss, adaptation of coastal communities and fisheries, changes in food webs, impacts on migratory species, adaptation of coastal communities and fisheries, changing attitudes and perceptions, the application of marine renewables, and the role of blue carbon habitats in supporting a net reduction in GhG emissions.

Coastal ecosystem-based solutions: Climate-change adaptation and mitigation

Session Convenors: Dr T Balke (University of Glasgow) & Prof W Austin (University of St Andrews)

The session is sponsored by the MASTS Coastal Forum.

The MASTS Coastal Forum convenors are pleased to invite abstracts for online 5-6 minute presentations. Papers can be offered in any field of study related to coastal ecosystem-based solutions, including, but not exclusively, blue carbon, ecosystem-based coastal protection, coastal habitat restoration. Presenters are encouraged to not solely focus on past and current research but reflect on gaps of knowledge and future research directions. Talks will need to be accessible to other disciplines, by avoiding jargon and keeping technical details simple. A linked plenary session keynote by Professor Peter Macreadie will be delivered on behalf of the Coastal Forum on the theme Blue Carbon and Coastal Environments.

Multiple Marine Stressors

Session Convenors: Dr M Hartl (Heriot Watt University) & Dr K Diele (Edinburgh Napier University)

The session is sponsored by the MASTS Marine Stressors Forum.

Papers can be offered in any field of study related to multiple marine stressors, including, but not exclusively, chemical pollutants, noise, climate change, sewage, electrical fields, multi-variate analysis and modelling etc. Presenters are encouraged to not solely focus on past and current research but reflect on gaps of knowledge and future research directions.

Sustainable Aquaculture

Session Convenor: Dr A Davie (University of Stirling)

The session is sponsored by the MASTS Sustainable Aquaculture Forum

Papers can be offered in any field of study related to Sustainable Aquaculture, with an emphasis being encouraged towards showcasing how your research is helping to “resolve our industries challenges”. Presentations showcasing the work of Early Career Researchers are particularly welcomed.

Marine Biogeochemistry

Session Convenor: Dr N Kamenos (University of Glasgow)

The session is sponsored by the MASTS Marine Biogeochemistry Forum

Papers can be offered in any field of study related to Marine Biogeochemistry, including the connectivity between terrestrial and marine systems. Presenters are encouraged to not solely focus on past and current research but to reflect on gaps of knowledge and future research directions.

Marine Science Technologies & Methodologies

Session Convenor: Dr L Boehme (University of St Andrews)

The session is sponsored by the MASTS Technology, Platforms & Sensors Forum

Papers can be offered in any field of study related to technologies and methodologies applied within the marine environment, including, but not exclusively, sensor development, new platforms or new uses of existing platforms or sensors, artificial intelligence or machine learning, new methodologies or data analyses. Presenters are encouraged to not solely focus on past and current research but reflect on gaps of knowledge and future research directions.

Tweetable abstracts

Today's digital landscape has provided researchers with a plethora of options to promote their research. Twitter is recognised as a credible option to disseminate knowledge and promote research findings. Twitter helps to disseminate information rapidly and to a wider audience as compared to other methods. A tweetable abstract is a one-two line summary of your research that can be used to attract the attention of your target audience on the social networking site Twitter.

You can keep the following points in mind while writing a tweetable abstract-

- There is a character limit of 280 (280 characters, not words). Your abstract should therefore not exceed this limit.
- Your abstract should be concise and engaging at the same time. A study has observed that shorter the tweet, higher the engagement.
- Your tweetable abstract should ideally state the main conclusion or the key message of your paper.
- Use relevant tags and hashtags. This will help you increase your reach.
- Avoid technical information and scientific jargon.
- Our # will be #MASTSasm2020
- Masts twitter is @mastscot : https://twitter.com/mastscot
- MASTS LinkedIn profile is MASTS Scotland : https://www.linkedin.com/company/masts-scotland

If you are not on twitter, fear not, MASTS will help tweet about your talk. Hannah Ladd-Jones would be delighted to help anyone who would like assistance composing an eye-catching tweet. Please drop her an email at helj2@st-andrews.ac.uk