





Breaking down barriers in academia: the EMCR Forum and TFOM as examples of interdisciplinary networks

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Introduction

Based at **CSIRO Space & Astronomy** (Sydney) since June 2019 - prior **ASTRON** (Netherlands, 2017-2019) and **University of Sydney** (2010-2017)

Current key roles include:



Head of ASKAP Science Operations focusing on survey science specification to ingest



ATCA DA Coordinator responsible for training duty astronomers to support the telescope



The Future of Meetings (TFOM) Chair (ongoing as part of post-symposium phase)



EMCR Forum co-deputy Chair as part of the Australian Academy of Science



Why interdisciplinary?

Reasons we look beyond our fields

- Build shared understanding
 - Research collaborations
 - Consultation/communication
- Enable mega-projects
 - International experiments
 - Large-scale infrastructure
- Identify shared challenges
 - Method-based collaboration
 - Science outputs for public good
- Connect related experiences
 - Junior researcher networks
 - Diversity/advocacy initiatives
- Construct a united front
 - Cross-institution networks
 - International alliances/unions





The EMCR Forum

The EMCR Forum's mission is to serve as **the voice of Australia's early- and mid-career researchers**, championing **improvement** in the national research environment through **advocacy**.

- Founded in 2011 as part of the Australian
 Academy of Science, recognising challenges facing Australia's emerging researchers
- Represents those who self-identify as EMCRs, typically up to 15 years post-PhD regardless of position or sector
- Currently over 6000 members across Australia
- Activities overseen by 12 executive members selected across discipline and expertise



EMCR Forum

@EMCRForum Follows you

The EMCR Forum is an advocacy group seeking to improve the research environment for Australia's Early- and Mid-Career Researchers

O Australia S science.org.au/emcr-forum Joined March 2015

2,444 Following 5,045 Followers



emcrforum strategic plan 2021–2025

OUR VISION	A sustainable future for the early- and mid-career researchers driving Australia's knowledge economy							
OUR MISSION	To provide leadership and advocacy that advances inclusion and empowerment of early- and mid-career researchers (EMCRs¹)							
OUR DRIVING PRINCIPLES	ideas and are not afraid to challenge	We are inclusive of all EMCRs in all sectors across all STEMM disciplines	You ar We ar	We are trustworthy . You are not alone. We are with you and for you		roactive ling with bers and ders	We strive to be effective and accountable in everything we do	
WHO WE REPRESENT	We are a grassroots network that represents EMCRs in all sectors across all STEMM ² disciplines							
OUR STAKEHOLDERS	Australian Academy of Science Government Funding bodies Employers of EMCRs							
THE EMCR FORUM HELPS STAKEHOLDERS CREATE	Specialised input and perspectives on the needs of EMCRs		A thriving research workforce			Connections with highly trained employees		
OUR OBJECTIVES	To be a voice for EMCRs across To all sectors and all STEMM disciplines				To advocate for best practice support of EMCRs			
INITIATIVES	 Build on and grow participation and engagement of EMCRs in the Forum and its activities Extend and diversify the EMCR Forum network in collaboration with our stakeholders Engage with members using digital platforms and social media Provide benefits for EMCR Forum members through events, newsletters, competitions, surveys and resources 			₩ 2 ※ 3	Develop best practice policies for stakeholders to support optimal EMCR career structures and opportunities Build on and contribute to equity activities Expand the advocacy program to influence key stakeholders Prepare submissions that represent EMCRs on issues raised by key stakeholders			
OUTCOMES	Growth in our active and engaged membership				Best practice research funding and career support policies and structures for EMCRs in Australia			
LONG-TERM AIM	Widespread recognition of the value of EMCRs and their contributions in a diverse, equitable and empowered science and research sector							



emcrforum























EMCR Forum Executive 2022: Dr Raffaella Demichelis (Chair), Dr Vanessa Moss (Co-Deputy Chair), Dr Mohammad Taha (Co-Deputy Chair), Dr Yee Lian Chew, Dr Timothy Lau, Dr Vipul Agarwal, Dr Angela Laird, Dr Maithili Sashindranath, Dr Charlie Morgan, Dr Emily Finch, Dr Emma Burrows, Dr Rowan Trebilco



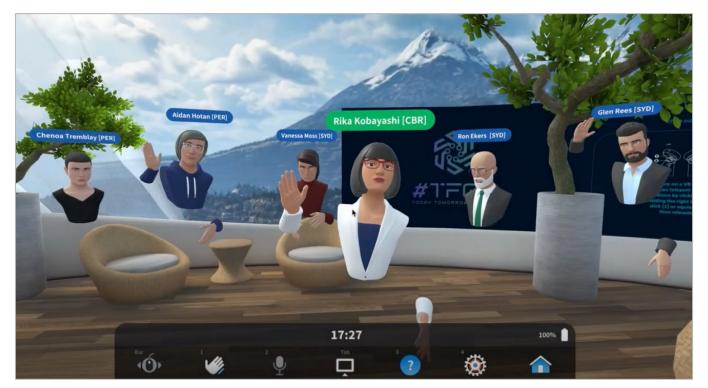




Conferences as a means of interdisciplinary exposure



Can we be together with people when we're apart?



The Future of Meetings (TFOM)



Our vision is a world that is increasingly **accessible**, **inclusive** and **sustainable** thanks to the benefits of **advancing technology**, both for the scientific community specifically and in wider society.

- Originated as the organising committee of "The Future of Meetings" CSIRO symposium (2020)
- Continued as active community of practice to collate and share outcomes from TFOM
- Provided advice, design and execution of virtual/hybrid events since then in partnership with academic conference organisers
- Ongoing experiments with technology to pioneer new approaches to virtual interaction























Activity highlights from EMCR Forum/TFOM

- Growth of membership to > 6000 people
- Establishment of Science Pathways
- EMCR website and resources (<u>website</u>)
- Regular engagement with stakeholders
- Forming RepNet as extension of Forum
- Diversity in prizes and awards (guide)
- Various submissions (<u>website</u>)
- Updates via EMCR Pathways (<u>newsletter</u>)
- COVID-19 impact survey (<u>media release</u>)

- Initial symposium reaching > 1100 people
- TFOM symposium report (<u>Zenodo</u>)
- TFOM article (<u>Nature Astronomy</u>)
- TFOM website + archive (<u>website</u>)
- Retro/planning workshop (<u>website</u>)
- Various articles/posts (<u>website</u>)
- Various talks/presentations (<u>website</u>)
- Conference partnerships (<u>website</u>)
- Ongoing community of practice (<u>website</u>)





Why do they work?

EMCR Forum and TFOM as examples

- United by a common cause
 - Making things better for EMCRs
 - Adapting academic practices

Broad range of perspectives

- Diverse membership/expertise
- Shared challenges across fields

Initial/ongoing support*

- Australian Academy of Science
- CSIRO Research Office + S&A

Timely relevant issues

- Addressing EMCR support issues
 - Future of work and interaction

Digital-first community

- Location-agnostic collaboration
- Synchronous and asynchronous mode of working/collaborating

^{*} Support from established entities ensures validation of & recognition for effort



Resources and links

- EMCR Forum: https://www.science.org.au/supporting-science/early-and-mid-career-researchers-0
- EMCR Forum Twitter: https://twitter.com/EMCRForum
- EMCR Forum 2021-2025 Strategic plan: https://www.science.org.au/supporting-science/early-and-mid-career-researchers-0/emcr-forum-strategic-plan
- TFOM Report: https://zenodo.org/record/4345562
- TFOM Nature comment: https://www.nature.com/articles/s41550-021-01325-z
- TFOM website: https://thefutureofmeetings.wordpress.com
- TFOM Twitter: https://twitter.com/futuremeetings
- EMCR Forum x TFOM Perspective: <u>https://www.science.org.au/news-and-events/newsletters/emcr-pathways-newsletter/issue-25-no-vember-2021/emcr-perspectives-future-meetings</u>