

Dear WMRIF Member Institute Leadership,

We are pleased to invite you and nominees from your institute to participate in 6th WMRIF Workshop for Early Career Scientists, which will be hosted by the National Physical Laboratory, Teddington, UK from 18th to 22nd June, 2018. All STEM classes are welcomed (e.g. scientist, technologist, engineers and mathematicians; and equivalents).

The Early Career workshop series concentrates on exceptional early career scientists in WMRIF institutes with the goals of network building, and knowledge and experience exchange, along with the chance to examine facilities of the host institute. In addition, the workshop enables participants to compete for the opportunity for extended visits to WMRIF institutes, as described below.

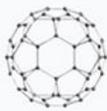
The themes of the 6th Workshop determined by the organizers is the grand challenge to enable new materials and processes to serve societal needs, as follows.

Emerging materials and new processes serving society, including:-

- *identifying micro-structure / property / performance relationships for emerging materials,*
- *ensuring processing quality in new processes such as additive and out-of-autoclave manufacture,*
- *developing characterisation, monitoring and testing methods for new materials and processes,*
- *robotics, Industry 4.0 (or Internet of Things) and the use of “Big Data” to advance productivity,*
- *advancing new materials and processes to higher TRLs and product applications.*

Please nominate up to three candidates from your institute to participate in this year’s workshop and provide their contact details for further communication by December 20th. Candidates should be conducting research related to the workshop themes. The research should be clearly that undertaken by the contestant, although minor co-authors are allowed. As a general rule, nominees should be within six years of receiving their doctorate or ten years of a first degree, but special circumstances will be permitted with explanation (such as sickness or maternity leave). Please note that all candidates must be nominated by WMRIF institutes leadership. Candidates should submit a 1000 word abstract, excluding references (Arial size 11 font) with up to two figures or tables by 28th January. Candidates will be informed of their acceptance to present by 20th February.

Participants will present their research in an oral presentation (15 minutes plus 5 minutes for discussion). The top five presenters will be chosen from the workshop participants. The candidate with the best presentation will be given the opportunity to visit two WMRIF institutes of their choice for a



period of two weeks each. The remaining winners will have the opportunity to visit a single institute of their choice for two weeks. WMRIF institute leadership and members of Working Group 3 present at the workshop will select the winning scientists.

As previously, the WMRIF Institute Leadership requests that you inform us of your willingness to host one of this year's early career award winners. The quality of the winning participants' placements will depend on WMRIF members' willingness to offer a placement, which also provides an opportunity for many more of your own staff to engage with a winning participant.

Please respond with this information by 28th January.

If you have questions about the workshop, please contact Prof. Graham Sims, the workshop host, (graham.sims@npl.co.uk) or Nick Barbosa (nicholas.barbosa@nist.gov) WMRIF Secretariat.

Regards,

Prof. Graham Sims,
Host - 6th WMRIF Young Scientists Workshop,
NPL Fellow,
National Physical Laboratory, UK

Dr. Nick Barbosa,
WMRIF Secretariat,
Senior Scientific Advisor, Material Measurement Laboratory,
National Institute of Standards and Technology, USA

OVERALL TIMETABLE

- **Nov. 31st - Announcement with abstract request**
- **December 20th - Institute nominations**
- **January 28th – Abstract submission deadline**
- **January 28th – Offers of hosting winners for 2 weeks**
- **February 20th – Contestant acceptance**
- **May 14th - Programme available**
- **May 30th – Paper submissions**
- **June 18th – 22nd – Conference/Competition**