

Graphene and Related 2D Materials

Technical Work Area 41

Project 4

Graphene Characterisation - Online Consultation Survey

Objectives

- The project aims to undertake a consultation exercise in order to assess global needs on measurement parameters, methods and applications in the field of graphene;
- Unify the relevant parameters of metrology, measurement method, standards, inspection and detection;
- Clear directions for improving the development of scientific research and production market of graphene industry in the future.

Background

Due to its many properties, graphene has wide applications across different industries such as energy, electronics, composites, coatings, biomedical, sensors, automobile, aerospace, etc. According to the "Allied Market Research Report", the global graphene market is expected to be \$149.1 million USD by 2020, registering a CAGR of 44.0 % during the forecast period 2014 - 2020.

In this emerging industry, it is necessary to understand the requirements for measurement methods and parameters, standards and inspection by researchers, industry, government and regulatory bodies. This consultation exercise hopes to increase the up-take of graphene by the wider industry.

Work Programme

The consultation will consist of two sections. Part A will focus on samples. Part B will focus on parameters, measurement techniques and instrumentation.

Please answer the multiple-choice questions as requested and participants are also encouraged to fill in Section "Comments & Suggestions".

International Participation

Current participation includes volunteers from Australia, Brazil, China, France, Spain, UK and USA. More volunteers are welcome.

Participants fund their own involvement in the project.

Call for Participation



Deliverables and Dissemination

The links below will guide you to the online questionnaire.

PC users:

https://sojump.com/ jg/15804669.aspx

Mobile phone users:

use a QR scanner to scan code below



Project Status

Users engaged in all aspects of graphene from research, processing, manufacture and applications are encouraged to participate.

More information:

Dr. Lingling Ren

Co-Chair, VAMAS TWA 41
National Institute of Metrology, China
Email: renll@nim.ac.cn

Dr. Tianjia Bu

Project Leader

National Institute of Metrology, China

Email: butj@nim.ac.cn

www.vamas.org

November 2017