

VAMAS TWA26

Minutes of the VAMAS TWA26 meeting held on 8th June 2000 in Orlando, Florida

The meeting was held during the IX International Congress on Experimental Mechanics organised by the Society for Experimental Mechanics.

Present at the meeting were:

Ian Allison, University of Warwick; Brad Boyce, Stress Photonics Inc.; Richard Burguete, BAE Systems, UK (co-chair); Juan D Carazo-Alvarez, University of Jaen; Mauro Facchini, Swiss Federal Inst. Tech.; Dulal Goldar, Delhi University; Michel Honlet, Honlet Optical Systems GmbH.; Guillermo Kaufmann, Argentinian National University of Rosario; Steve Katz, Measurements Group Inc.; Jon Lesniak, Stress Photonics Inc.; Yoshihari Morimoto, University of Wakayama, Japan; Eddie O'Brien, BAE Systems, UK; Eann Patterson (co-chair); Fabrice Pierron, ENSAM, France; C. Sciammaller, Illinois Institute of Technology; Ron Slaminko, Boeing; Huai-Min Shang, National University of Singapore; Michael Sutton, University of South Carolina; Michel Taroni, SNECMA, France; Siew-Lok Toh National University of Singapore; Rachel Tomlinson, University of Sheffield; Kumar Utukuri, Rudolph Instruments; Deonna Woolard, Randolph-Macon College.

1. Professor Patterson provided a brief introduction to the meeting. He referred people to the TWA website for further information (<http://www.twa26.org>) and to the link to be found there for the VAMAS website. The main motivations for involvement in the standardisation process for optical methods of stress and strain measurement were identified as promoting the profile of the subject; aiding quality assurance for industry; attracting research funds to the subject to support high quality laboratory activity. These funds might arise from national government to support standardisation and/or from industry due to quality assurance and a higher profile.
2. Richard Burguete made a presentation entitled 'On the standardisation of optical stress and strain measurement methods'. A copy of the slides used in the presentation are attached as (burguete.ppt). The text of the presentation is largely covered by 'On the standardisation of optical stress and strain measurement methods' Proc. SEM Annual Conf. On Theoretical, Experimental & Computational Mechanics, Cincinnati, Ohio, June 1999, p.261-3.
3. Professor Morimoto spoke briefly about the position in Japan where there are no existing standards for optical methods of stress and strain measurements. He stated that standardisation was important but must not inhibit research.
4. Professor Sutton described progress in the United States, which is being made through the activities of the ASTM E08-24 committee. This committee will consider a draft standard on terminology at its meeting on June 14-16. A copy of the draft is attached as (sutton.doc). Comments direct to Professor Sutton at sutton@engr.sc.edu.

5. Michel Honlet presented a European perspective based on an survey of end-users conducted by himself and Richard Burguete. The results of the survey are summarised in his slides which are attached as honlet.ppt. A further survey of senior managers in the companies of end-users is planned for the future.
6. The modus operandi for the Technical Working Area (TWA26) was discussed. The discussion was initiated by a brief presentation from Richard Burguete (burguete.doc). The sources of funding for pre-normative research were identified as being the NSF in the USA and DGXII in the European Union. Professor Patterson plans to lead a European consortium bid for research monies under the Framework V programme, further details are available in patterson.ppt and interest participants were asked to contact professor Patterson at e.a.patterson@sheffield.ac.uk.
7. Co-ordination of pre-normative research is a key role of TWA26. A spreadsheet defining the domain of the working area was presented (patterson.xls). Comments and amendments to this spreadsheet were invited. Participants were also asked to consider the areas in which they would like to be active in pre-normative research and to inform the co-chairs, using the field identifiers in the spreadsheet.

ACTION: ALL

8. The points raised in discussion were as follows:
 - 8.1. Concern was expressed that the innovative use of tools should not be restricted by a standard.
 - 8.2. There was a request that the standard should contain a clear statement about the motivation for its preparation (i.e. quality assurance) in order to help guard against its own obsolescence. This is believed to be particularly important in the context of product liability.
 - 8.3. Within the aerospace industry there is a move towards providing statements on the uncertainty in experiment data, and standardisation was discussed as a possible means of supporting this activity.
9. In the absence of current funding to support the activities of TWA26 its meetings need to coincide with major international conferences. So the next meeting will be at ICEM-12 to be held in Vienna, Austria during July 3-6, 2002. It is planned to hold regional progress meetings at the BSSM meeting in Lancaster, UK in September 2001, Photomechanique Colloque in Poitiers, France during April 24-26, 2001 and at SEM conference in Portland, Oregon in June 2001. Participants were encouraged to use email and the website to obtain information and initiate activities.

Attachments

Burguete.ppt

Sutton.doc

Honlet.ppt

Burguete.doc

Patterson.ppt

Patterson.xls