1. Board membership
Stuart Irvine (Chairman), OpTIC Centre, Swansea University
Peter Flewitt (Vice-Chairman), University of Bristol
Ian Warrington (Group coordinator), IOM3
Ainara Aguadero (Board Secretary), Imperial College London
Derek Allen, Innovate UK
Keith Barnes, Packaging Society
Keith Harrison, Chairman, ITPB
John Kilner, Imperial College London
John Oakey, Cranfield University
Scott Lockyer, Uniper Technologies Ltd.

Peter Barnard (Newsletter Editor), Babcock Doosan
John Rothwell, TWI
Cem Selcuk (replacing John Rothwell), TWI
Robert Quarshie, Materials KTN
Lien Ngo, Innovate UK
Tony Fry, NPL
Gordon McCollvin, GE Power – Gas Power Systems
Mike Gorley (web Master), CCFE
Mohammed Adeel Shaikh (STEM lead), AMEC Foster Wheeler
Graham Heys, ONR

Alternate members
Roger Morrell, NPL
Dr Craig Degnan, Uniper

Corresponding
Faye Smith, UKTI
Melanie Boyce, IOM3
Viki Taylor, IOM3
Emma Leighton (Sonia Ojo – stand in), Taylor & Francis
Paul Mummery, Manchester University
Allan Walton, University of Birmingham
Chris Bagley, Energy KTN
David Hodgson, UKTI Energy

A review of board member in 2017 has reduced the size of the EMG Board and started to adopt the practice of nominating alternate members if the lead member cannot attend. In addition, we have expanded the list of corresponding members who are normally unable to attend the board meetings but are able to contribute to the EMG with their specialist expertise. I welcome Dr Ainara Aguadero as Board Secretary, Dr Mike Gorley as Web Master, Dr Peter Barnard as Newsletter Editor and Mohammed Adeel Shaikh as lead on STEM activities.
2. Board meetings
The EMG have held three board meetings in 2017 with the addition of 2 teleconferencing meetings held in April and September. These additional board meetings have helped to focus on specific topics such as the EMG annual lecture and relieve some of the pressure on the agenda for the main board meetings. One of the board meetings was held outside London hosted by AMEC Foster Wheeler, Birchwood on 29th June.

The dates, location and attendance of board meetings for the year were as follows:
18th January, 297ER (8); 29th June, AMEC Foster Wheeler (10), 22nd November, 297ER (14).

3. Activities during 2017
The EMG has continued with its strategic role to raise the profile of energy materials in facing the challenges of power generation and climate change. There have also been initiatives to improve the benefits to EMG division members through the web site, newsletter and events. Specific activities are as follows.

- Contribution to IOM3 response in March 2017 to Government Green Paper – Building our Industrial Strategy. The EMG wrote sections on nuclear power, large scale power generation and renewable energy.
- Introduction of EMG Newsletter, starting in January 2017 with a total of 9 issues during the year.
- A complete revision of the EMG micro-site with improved links and information for members of EMG.
- Getting the Energy materials Journal (virtual issues) on a more regular basis, 4 issues per year.
- Liaison with Materials World editorial staff to assist with content on energy materials.

3.1. Technical programme
- EMG supported meeting with Manchester Metallurgical Society on “Challenges of Nuclear Fusion Reactors” 7th February.
- EMG Annual Lecture: Dame Sue Ion FRS, FREng, FIMMM, 13th August, “Materials challenges to deployment of 21st century nuclear reactor systems – can we do better than the early pioneers?”.  
- Materials Protecting Society (MPS) series launch 20th September. EMG participated with other divisions in ITP to launch this high profile series to show the relevance of materials to the current challenges that we face in society.

3.2. Web-site developments
Mike Gorley has taken over the role of Web Master and during the year has redeveloped the micro-site to provide a better service to EMG members. This has included a link to the EMG newsletters that were introduced in 2017 and can be found at a separate link.

3.3. Engagement with technical community and/or local societies
EMG has continued to seek opportunities for joint events and providing speakers for local societies. The EMG supported event with the Manchester Metallurgical Society is listed in the events. Engagement with other technical communities has been through the ITPB and particularly close cooperation has been developed with High Temperature Materials and Sustainable Development Group (SDG). We participated in the launch of the MPE event in September and working with SDG on the MPE event in February.
3.4. Contributions to IOM3 house journals
The main mechanism for engagement with house journals has been linking published papers across the range of house journals to the Energy Materials Journal. This is a virtual journal that provides lists of energy materials relevant papers and links to the article in the originating journal. The EMG has continued to seek closer links with Science and Technology of Advanced Materials (STAM) where papers are invited from presentations at relevant conferences such as PVSAT (PV Science and Technology).

3.5. Other
The EMG have avoided unnecessary travel by the introduction of on-line board meetings that are held between the attendance meetings. This has helped to improve communication and more timely action to carry out board business.

4. Strategy and Objectives for 2018 and Beyond

4.1. Opportunities and constraints
- Achieve greater visibility and benefit to IOM3 members through web site, Newsletters and events.
- Develop strategic goal of raising the profile of energy materials to government departments, R&D funding and industry.
- The EMG board will work with the constraint of limited funding for initiatives.
- Opportunity for closer alliance with other technical groups and divisions on the MPS conference series.
- Develop opportunities for working with Taylor & Francis on energy materials content in house journals and STAM.

4.2. Specific targets for 2018
- Review web site and e-newsletter as effective routes for communication and change accordingly. Review outreach initiatives.
- EMG annual lecture, 2 joint events, participate in an MPS series.
- Support an international event on energy materials theme.
- Develop international links and UK strategic engagement.
- Progress energy materials themed issues in IOM3 journals and 4 issues of EMJ.
- Discuss with the CEO of IOM3 to develop how the EMG can be more proactive in engaging with, and responding to, external energy materials issues.

4.3. Outline plans for the 4 years beyond 2017
- Review membership balance of the EMG board and integration with new ITPB structure.
- Review outreach initiatives such as STEM
- Continue annual lecture and seek new joint technical meetings.
- Support international conference on energy materials.
- Strategic engagement plan.

5. Other matters

No other matters.
# Appendix: Technical Programme as of December 2017

<table>
<thead>
<tr>
<th>Date (YY/MM/DD)</th>
<th>Status</th>
<th>Title</th>
<th>Location</th>
<th>Organising Division(s) /Committee(s) /Collaborators</th>
<th>Financial Underwriter (IOM3/Local/Other)</th>
<th>100% Target No’s</th>
<th>Actual No’s</th>
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<tbody>
<tr>
<td>7/02/2017</td>
<td>Held</td>
<td>Challenges of Nuclear Fusion Reactor – Mike Gorley</td>
<td>Manchester</td>
<td>MMS/EMG</td>
<td>Local (NW)</td>
<td>100%</td>
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<tr>
<td>13/07/2017</td>
<td>Held</td>
<td>EMG Annual lecture – Materials challenges to deployment of 21st century nuclear reactor systems – can we do better than the early pioneers?</td>
<td>297ER</td>
<td>EMG</td>
<td>IOM3</td>
<td>64</td>
<td>46</td>
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<tr>
<td>20/09/2017</td>
<td>Held</td>
<td>Launch of Materials Protecting Society series</td>
<td>297ER</td>
<td>ITPB/EMG</td>
<td>IOM3</td>
<td>60</td>
<td>29</td>
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<tr>
<td>21/02/2018</td>
<td>Planned</td>
<td>Materials Protecting the Environment</td>
<td>297ER</td>
<td>SDG/EMG</td>
<td>IOM3</td>
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<td></td>
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<tr>
<td>June 2018</td>
<td>Planned</td>
<td>EMG Annual lecture</td>
<td>297ER</td>
<td>EMG</td>
<td>IOM3</td>
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</table>