



800892

ESIS TC11

Company Registration No 02149907

Registered Charity

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HIGH TEMPERATURE MECHANICAL TESTING COMMITTEE

Minutes of 76th Meeting

Held on **Wednesday 13th November 2019 at BAM*** starting at **5.30 pm**, held in conjunction the 4th TMF Workshop at BAM Berlin 13th – 15th November 2019.

*Bundesanstalt für Materialforschung und -prüfung Building 5, Ludwig-Erhard-Saal
Unter den Eichen 87, 12205 Berlin

Dates of Next Meetings:

The 2020 AGM (77th Meeting) will be held on **Tuesday 21st April 2020** at Nottingham University (Note: *The Original date of Thursday 23rd April 2020 is no longer convenient for some members so please the new date*)

- 1) *The 2020 Autumn meeting probably to be held at Linköping University, Sweden. (tbc)*
- 2) **Temperature Measurement WG:** Thursday 22nd January 2020 at CCPI Europe Sheffield

<u>No.</u>	<u>Topic</u>	<u>Action</u>
1	<u>INTRODUCTION & WELCOME</u> General. Dr Klingelhöffer (Chairman) welcomed all those who were present. The Agenda, given in Appendix 1 , was agreed.	
2	<u>ATTENDANCE & APOLOGIES FOR ABSENCE</u> The business cards of the members present are given in Appendix 2 . The following were present : Prof. M Bache (<i>Swansea University</i>), Dr Stephen Brookes (<i>RR MTOC</i>), Dr Ehsan Hosseini (<i>EPMA, Zurich</i>), Dr Jonathan P Jones (<i>Swansea University</i>), Dr Hellmuth Klingelhöffer (<i>BAM</i>)[<i>Chairman</i>], Mr Malcolm S Loveday [<i>Secretary</i>], Dr Falk Müller (<i>Technische Universität, Darmstadt</i>), Dr. Svjetlana Stekovic (<i>Linköping University, Sweden</i>), Apologies were received from : Dr Peter Barnard (<i>Doosan</i>), Dr Peter Bailey (<i>Instron</i>), Larry Candler (<i>Consultant</i>), Costa Coleman (<i>IncoTest</i>), Steve Collins (<i>UKAS</i>), Tony Fry (<i>NPL</i>), Dr Chris Hyde (<i>Nottingham University</i>), Phil Jones (<i>Westmoreland</i>), Mr Dave McLennon (<i>EDF</i>), Mr Andrew Mills (<i>Siemens</i>), Prof Kamran Nikbin (<i>Imperial College</i>), Mr O. O'Grady (<i>MET Ltd, UK</i>), Dr Nigel Wrigley, (<i>Zwick-Roell</i>) No replies: Nigel Ryder, Matthew Thomas (<i>Element Material Technology</i>), Lee Waterhouse (<i>Wood plc</i>), Prof Brad Wynne (<i>Sheffield University</i>)	
3	<u>MINUTES OF PREVIOUS MEETING</u> The Minutes of 75 th Meeting held on Nottingham University on Thursday 11 th April 2019, circulated previously by e-mail on: 24/06/2019, were accepted as a correct record.	MSL

4 **MATTERS ARISING**

There were no specific items raised that were not covered elsewhere on the Agenda.

5 **CORRESPONDENCE**

The Secretary reported that annual accounts had been accepted by Companies House & the Charity Commission. It should be noted that since our income in 2018 was less than £10k, it was only necessary to use the ‘micro entity’ forms for Companies House and the income / expenditure data for the Charity Commission. Rather surprisingly neither organisations seem to require the total assets of the HTMTC to be declared.

To upload the Financial information to the Charity website it was required to provide extensive information about members, including phone numbers, e-mail address and dates of birth etc to complete all the necessary fields before the Account details could be accepted. At the time of filing the return the Secretary only had the necessary details of Messrs Bache, Barnard, Candler, Phil Jones, Jon Jones, Klingelhöffer, Loveday readily available so only those appear as Trustees of the Charity rather than all the members of the main committee. Details may be seen at the following website:

<http://apps.charitycommission.gov.uk/Showcharity/RegisterOfCharities/CharityWithoutPartB.aspx?RegisteredCharityNumber=800892&SubsidiaryNumber=0> . Please let the Secretary know if you wish to see any changes made to the Charity website entry.

6 **TREASURER'S REPORT**

6.1 Financial Matters

The Treasurer, Jonathan Jones, gave a presentation outlining the current status of the HTMTC accounts and the UKHTPPF Working Group designated fund. Details of the 2018 Accounts which audited by the Independent Examiner, Mr James Phillip Evans – ACCA, had been circulated to the Main Committee on 25/09/2019 and were ratified by the Committee. The Committee remains in a financial healthy position and should receive an income in 2019 generated by the TMF Workshop and further income in 2020 from the ECCC2020 Edinburgh Conference.

6.2 VAT Registration

The Treasurer reported that the process of VAT Registration had been started but some further help was needed to complete the process. It is understood that VAT returns should be submitted on-line to HMRC (Her Majesty’s Revenue & Customs) at quarterly intervals so that VAT can be recovered from the contracts for creep testing placed by the UKHTPPF WG and for the Hotel Conference Centre for the ECCC2020 meeting. Discussions will be held with Dr Barnard regarding the responsibility for managing the VAT Registration.

MSL /
JPJ

7.3 Conference Registration

As reported at the previous meeting, ‘Cvent’ were taking over Regonline, see <https://www.cvent.com/uk>. However, it appeared that Cvent would not be economically appropriate for the relatively small & infrequent Workshops/ Conferences organised by the HTMTC so for the TMF Workshop the Chairman reported that the organisation ‘Xing Events’ had been used but since it is a German based organisation but there are problems to transfer money from Xing-Events to a British bank account (HTMTC bank account). It was reported that Dr Barnard was proposing to use a company called Regbox for the ECCC2020 Conference, see <https://www.regbox.co.uk> The Secretary agreed to discuss practical issues relating to the registration procedure with Dr Barnard at the UKHTPPF meeting on 21st November 2019 at Nottingham.

MSL

13 **HTMTC: Administration & Promotional Activities**

- a) **Web Site** – Thanks were expressed to Larry Candler who had spent a considerable amount of time arranging for the HTMTC Website to be transferred to a new host organisation and had updated the content etc. The website is now operational and can be found at www.htmtc.net . The dates for the forthcoming Conferences are displayed under the ‘Events’ tab and it is hoped that shortly direct links to the two conference websites will be incorporated.

LC

- b) **GDPR** - The HTMTC aims to operate in compliance with the General Data Protection Regulations following a procedure which may be viewed on our website by clicking on the 'Privacy Policy' tab at the bottom of the Home Page.
- c) **HTMTC E-mail Address** : The new e-mail address for the HTMTC is Info@htmtc.net which is now registered and any e-mails sent to that address are automatically forwarded to the Chairman, Vice Chairman & Secretary.
- d) **Memory sticks** – The number currently held by the Secretary is ~ 40 x 1 GByte but they have the old website address. As indicated in the minutes of the previous meeting the Treasurer has now obtained a quotation From Flashbay for the purchase of a new batch: for 250 sticks overprinted with modified artwork incorporating the new website address www.htmtc.net & the HTMTC Logo. They will cost £1,146 (2 Gbyte) or £1167 (4 Gbyte) + £18 shipping. Dr Klingelhöffer that a batch of memory stick had been supplied by Zwick for distribution to the TMF Conference delegates. A separate batch of memory sticks will be purchased by Dr Barnard for the ECC2020 conference overprinted with premium sponsor's logos.
- e) **Publicity flier** – a new picture has been supplied by Dr Jones
- f) **Twitter**. Dr Stekovic offered to establish an HTMTC 'twitter' presence to raise the profile of the activities of the Committee.
- g) **Conference bags with HTMTC logo**: Mr Klingelhöffer ordered white cotton wool conference bags with coloured HTMTC logo which was found to be attractive. The costs per bag was 4 €. Mr Klingelhöffer offered that such bags could possibly also be used for the ECC2020 conference. Mr Klingelhöffer will send an example bag to Pete Barnard.

JPJ

PB

MSL

15 FUTURE HTMTC Symposia / Workshops

a) *4th TMF-Workshop: 13-15 Nov 2019, BAM, Berlin, TMF & Crack Growth in TMF*

The Chairman reported that the organisation had progressed well and attracted approximately 100 attendees from 17 countries. The programme comprised 33 presentations plus several poster displays. A wide spectrum of industrial sectors were represented including power plant, automotive, aerospace (gas turbines) and rocket engines which indicated the importance of TMF . The meeting dovetailed in with the final Workshop of the EU Funded Project 'DevTMF' concerned with *Crack Growth Measurement in Thermal Mechanical Fatigue* being led by Dr. Sijetlana Stekovic. Which included a very effective panel discussion with representatives from the project partners including *Linköping University, Sweden, Nottingham University & Swansea University*. The Committee congratulated Dr Klingelhöffer for once again organising a highly successful TMF conference.

A number of the papers will be published in a special issue of the International Journal of Fatigue. 12 full papers have been submitted and the peer review process starts in December 2019.

b) *ECCC 2020 – Edinburgh Mon – Wed, 13th -16th September 2020. Joint UKHTPPF & HTMTC Activity supported by the IOMMM.*

Plans are progressing for ECCC Creep & Fracture 2020 which is the 5th International Conference organised under the auspices of the European Collaborative Creep Committee (ECCC). At the previous meeting Dr Barnard had given a presentation relating to administrative matters associated with 2020. A Flier had been issued which gives notice of the dates and the venue together details of the website which gives some of the conference deadlines. *For further information see <http://ecc2020.com/>* The HTMTC will be responsible for finding speakers and setting the programme for one of the technical sessions, and the Secretary had circulated an outline draft of Topics and some possible speakers. A revised programme will be circulated and presentations/papers will be sought.

PB, HK,
MSL

MSL

It was noted that the organisation Regbox will deal with the registration and the registration link on the ECCC2020 website will shortly become live. It is understood that the registration fees will be routed via Regbox directly into the HTMTC Accounts as they are received. See <https://www.regbox.co.uk/> for further information about Regbox.

It was noted that the ECCC Chairman, Dr Augusto Di Gianfrancesco, had circulated an e-mail extending the deadline for the submission of Abstracts had been extended to 15th December 2019.

The matter will be considered further at the UKHTPPF meeting at Nottingham on 21st November 2019.

Post Meeting Note.

*A notice was received about the **6th International Small Sample Test Techniques Conference SSTT2020** due to take place in Santander (Spain), organised by the University of Cantabria, on September 1-3 2020. Visit www.sstt2020.unican.es for more information. It is noted that this meeting is about two weeks before the Edinburgh conference which may also include Miniaturised Testing matters in the HTMTC Session.*

LCF9 Conference

The Chairman reported that plans have now started for organising the Ninth International Conference on Low Cycle Fatigue (LCF9) which will be held in Berlin on 22nd – 24th June 2021, organised by the German Association for Materials Research and Testing e.V. (DVM). The HTMTC agreed to help publicise the event and support the conference ‘in name only’, ie no financial commitment. The conference will be under the Executive Chairmanship Profs Tilman Beck (DE) & Eric Charkaluk (F) and Dr Klingelhöffer had been invited to serve on the Scientific Committee.

For further information see

<https://dvm-berlin.de/veranstaltungen/2021-lcf9-ninth-international-conference-low-cycle-fatigue> or www.lcf9.de

16 **WORKING PARTY REPORTS**

16.1UK High Temperature Power Plant Forum (UKHTPPF)

The UKHTPPF now functions as an autonomous Working Group initially under the Convenorship of Dr Peter Barnard and funds have been transferred into a designated fund under the HTMTC Accounts. Dr Barnard has been added as a signature on the designated A/C for UKHTPPF under the HTMTC bank account.

Dr Barnard had forwarded a copy of the operating constitution which will form the Scope for the Working Group and the Secretary had circulated it to the Main Committee. It was noted that members of UKHTPPF pay an annual subscription of £3.5 pa and that the Forum commissions creep tests from a third party organisations. The Secretary reported that he had examined the ‘Forum Constitution’ and it did not appear to be in conflict with the HTMTC Articles of Association and thus it will not be necessary to change the HTMTC Schedule listed on the Charity Commission website. It was noted that the meeting of the UKHTPPF scheduled for October had been postponed to 21st November 2019 at the University of Nottingham; the Secretary agreed to attend the meeting to clarify some matters relating to a) VAT, b) the ECCC2020 programme, etc.

PB

MSL

16.2 Temperature Measurement WG for HT Testing:

The Secretary reported that the meeting scheduled to be held on 10th October 2019 had to be postponed due to a clash of another meeting a CCPI, so and alternative meeting date of 22nd January 2020 was being proposed at CCPI Rotherham at the kind invitation of the Managing Director, Jonathan Golding, (see www.ccpi-europe.com)

All

16.3 Non Standard Testing WG

There was nothing to report since the Group had not met. Unless a new volunteer offers to act as Convenor the WG would be suspended. Please contact the Secretary if you, or a colleague, are willing to organise this Group.

BW

16.4HT Friction Measurement WG

WG had not formally met and the Secretary reported that he & Dr Kilgallon had failed to elicit a response Prof Brad Wynn concerning the Convenership of the Friction Group who now has additional responsibilities at Culham as well as Sheffield University. It is proposed to sound out the AFRC Group attached to Strathclyde University to see if they would be willing to act as Convenor otherwise the Group will be suspended.

PK
MSL

17 EMPRESS2: Temperature Measurement Project

It is understood that the EPRESS2 project was progressing well. For further information see

<https://www.strath.ac.uk/research/advancedformingresearchcentre/whatwedo/collaborativeprojects/empress2project/>

Members were invited to keep in touch via the LinkedIn thermocouple group:

www.linkedin.com/groups/8588686

18 STANDARDS ACTIVITIES

A number of members have attended national Standards meetings concerned with mechanical testing of metals at BSI & DIN to progress a variety of standards activities and shadow the ISO activities. However, it was reported that Dr Falk Müller had taken over the role of Convenor of ISO TC164 SC1 WG2 Creep Testing and arrangements are in hand to undertake a minor revision of ISO 204, Creep Testing, to correct the error in Figure 1.

Dr Müller reported that he attended the meeting held in Ulm, Germany during the week Sunday 22nd September 2019 – Friday 27th September hosted by Zwick.

Dr P Bailey had also attended the meetings in Ulm, but unfortunately Dr Klingelhöffer nor Dr Brookes could not attend neither was Mr Loveday able to travel due to inadequate funding offered by BSI.

The ISO TC164 meetings in 2020 would be at the ASTM headquarter in Conshohocken near Philadelphia, Pennsylvania, USA from 5th October 2020 – 9th October 2020. [Note this will not clash with the ECCC2020 Creep meeting]

19 ESIS & FESI Feedback

Members were reminded that members of ESIS Technical Committee's were expected to be members of ESIS and UK residents could download membership application forms from the FESI website.

a) **ESIS** : Information about ESIS can also be seen at www.structuralintegrity.eu
The Secretary noted that two issues of ESIS Newsletters for 2019 are now available :
<https://www.structuralintegrity.eu/site/pdf/Newsletter63.pdf>
& <https://www.structuralintegrity.eu/site/pdf/Newsletter64.pdf>

It was noted that Prof Francesco Iacoviello from the Università di Cassino e del Lazio Meridionale, Italy is now the President.

The Chairman reported that ESIS Technical Committees have now been requested to upload details of their Committee activities & Officer's details to a the ESIS Website. A Report for 2019 with dates of forthcoming conferences will be submitted.

HK

b) **For Membership of FESI** see www.fesi.org.uk

The UK Forum for Engineering Structural Integrity (FESI) works towards assuring the reliability, safety and economic viability of engineered systems, structures and components from design to end-of-life, and to reduce undesirable environmental impact. Membership of ESIS can be arranged via FESI. For the bi-annual Bulletin see the FESI website.

20 ANY OTHER BUSINESS

a) **Date of Next Meetings** :

- i) **77th meeting (AGM) 21st April 2020** at Nottingham University, including a Laboratory tour.
 - ii) **78th Autumn council meeting** - *Linköping University, Sweden. Date tbc*
- b) **Vote of Thanks**. A vote of thanks was expressed to Dr Klingelhöffer and BAM for Chairing and hosting the meeting and to all who for attending.

17 LIST OF APPENDICIES

1. Agenda

APPENDIX 1



HIGH TEMPERATURE MECHANICAL TESTING COMMITTEE

www.htmtc.net



76th Meeting) Wednesday 13th November 2019 at BAM* starting at 6.00 pm, held in conjunction the 4th TMF Workshop at BAM, Berlin 13th – 15th November 2019.

*Bundesanstalt für Materialforschung und -prüfung Building 5, Ludwig-Erhard-Saal
Unter den Eichen 87, 12205 Berlin

AGM AGENDA

ACTION

- | | | |
|----|---|---------------------------------|
| 1 | INTRODUCTION & WELCOME TO BAM | HK |
| 2 | Members present to Introduce themselves | All |
| 3 | APOLOGIES FOR ABSENCE [see Appendix A] | MSL |
| 4 | MINUTES OF PREVIOUS MEETING
The Minutes of 75 th Meeting held on Nottingham University on Thursday 11 th April 2019, [circulated previously by e-mail on: 24/06/2019] To be approved | |
| 5 | MATTERS ARISING (Items not covered elsewhere on the Agenda) | |
| 6 | CORRESPONDENCE Charity Commission, Companies House, etc | MSL |
| 7 | TREASURER'S REPORT
c) Ratification of Accounts (circulated on 25/09/2019)
d) Current state of Bank Balances
e) Invoices / Budget
f) VAT Registration?
g) Regonline / Cvent / Xing Events - Access confirmed ? Feedback | JPJ

HK/LC |
| 8 | MEMBERSHIP
a) Resignations ?
b) Other Changes in Membership / Changes in contact details? | |
| 9 | HTMTC: Administration & Promotional Activities
h) Web Site –new host site ? new web address www.htmtc.net - feed back hit counter?
i) HTMTC E-mail Address : now htmechtest@htmtc.net but not automatically forwarded to the Officers.
j) Memory sticks –number in stock :43 x 1 GByte; purchase more? promotional materials
k) Publicity flier – A5 folded version
l) E) Twitter site ? | LCP

JPJ
MSL
SS |
| 10 | UKHTPPF Matters | PBarnad |
| 11 | FUTURE HTMTC Symposia / Workshops
[For other meeting of possible interest to HTMTC Members see separate list]
c) 4th TMF-Workshop: 13-15 Nov 2019, BAM, Berlin, & Crack Growth in TMF see http://www.tmf-workshop.bam.de
d) ECCC 2020 – Edinburgh Mon – Wed, 13 th -16 th September 2020. Joint UKHTPPF & HTMTC | PB/HK/
MSL

PB |
| 12 | WORKING PARTY REPORTS
16.1 Non Standard Testing WG: <i>Scope & objectives</i>
16.2 Temperature Measurement for HT Testing: <i>feedback. CoP & Drift</i>
16.3 HT Friction Measurement - Scope – <i>Convenor Prof Brad Wynne</i> | LC
MSL/DM
cL
BW/MSL |
| 13 | <u>EMPRESS2: Temperature Measurement Project – feedback</u> | |
| 14 | STANDARDS: ISO TC164 Ulm, Germany, 22nd – 27th September 2019 | HK/PB/M
SL |

15 ESIS Feedback

c) Newsletter c) ESIS Council in see: www.structuralintegrity.eu

d) Membership- FESI www.fesi.org.uk

- 16 1) ANY OTHER BUSINESS:** a) Date of Next Meetings: **Thursday 23rd April 2020** at Nottingham University [see revised date] b) Autumn meeting *Linköping University, Sweden. Date tbc*
b) Vote of Thank