 **MINUTES**

**GASKET WORKING GROUP**

**MEETING**

**Dates:** May 25, 2018

**Time:** 9:00 AM – 10:30 AM EST **Vehicle: Go-to-Meeting**

**Present**:

Stephen Woolfenden – Eriks Group NV [Stephen.Woolfenden@eriks.co.uk](mailto:Stephen.Woolfenden@eriks.co.uk)

Greg Raty – Slade [graty@slade-inc.com](mailto:graty@slade-inc.com)

Jim Drago – Garlock [jim.drago@garlock.com](mailto:jim.drago@garlock.com)

Daniel Bisset – W.L. Gore [dbissett@wlgore.com](mailto:dbissett@wlgore.com)

Antonio Morales – Empak [technology@empak.com.mx](mailto:technology@empak.com.mx)

Ron Frisard – A.W. Chesterton [Ron.Frisard@chesterton.com](mailto:Ron.Frisard@chesterton.com)

Lucas Norton – A.W. Chesterton

Phil Mahoney – A.W. Chesterton [Phil.Mahoney@chesterton.com](mailto:Phil.Mahoney@chesterton.com)

Guillermo San Martin - Empak [laboratorio@empak.com.mx](mailto:laboratorio@empak.com.mx)

Henri Azibert - FSA [henri@fluidsealing.com](mailto:henri@fluidsealing.com)

**Absent:**

Chett Norton – Triangle Fluid [chett@trianglefluid.com](mailto:chett@trianglefluid.com)

Larry Sheffield – Innertech [larrysheffield@inertech.com](mailto:larrysheffield@inertech.com)

Matt Wasielewski – Yarmouth Research [matt@yarmouthresearch.com](mailto:matt@yarmouthresearch.com)

Lucas Norton– A.W. Chesterton [Lucas.Norton@chesterton.com](mailto:Lucas.Norton@chesterton.com)

David Mitchell - ESA [daemitch@btinternet.com](mailto:daemitch@btinternet.com)

Matt Bonagura – A.W. Chesterton [Matt.Bonagura@chesterton.com](mailto:Matt.Bonagura@chesterton.com)

Mike Shorts – Triangle Fluid [mike@trianglefluid.com](mailto:mike@trianglefluid.com)

Martin Coulthard – James Walker [martin.coulthard@jameswalker.biz](mailto:martin.coulthard@jameswalker.biz)

Thomas Jessup – EGC [thomjessup@egc-ent.com](mailto:thomjessup@egc-ent.com)

Francesca Torriani - General Packing [francescatorriani@generalpacking.com](mailto:francescatorriani@generalpacking.com)

María García Gorrichategui - Montero Fye S.A [laboratorio@monterofye.com](mailto:laboratorio@monterofye.com)

Constant Olivier – Technetics [constant.olivier@technetics.com](mailto:constant.olivier@technetics.com)

Mark Richardson – James Walker [mark.richardson@jameswalker.biz](mailto:mark.richardson@jameswalker.biz)

Laverne Fernandes – Garlock [laverne.fernandes@garlock.com](mailto:laverne.fernandes@garlock.com)

Mark Neal [markneal@europeansealing.com](mailto:markneal@europeansealing.com)

Patricia Pichardo – Empak [desarotecno@empak.com.mx](mailto:desarotecno@empak.com.mx)

Lee Gillette – W.L. Gore [lgillett@wlgore.com](mailto:lgillett@wlgore.com)

Charlene Jones – W.L. Gore [CNJones@wlgore.com](mailto:CNJones@wlgore.com)

Philippe Pottier - Siem [philippe.pottier@siem.fr](mailto:philippe.pottier@siem.fr)

Chiara Sozzi – General Packing [chiarasozzi@generalpacking.com](mailto:chiarasozzi@generalpacking.com)

Carl Jones – W.L. Gore [chjones@wlgore.com](mailto:chjones@wlgore.com)

Frank Herkert - Amtec [fh@amtec.de](mailto:fh@amtec.de)

Randy Wacker – InnerTech [randywacker@inertech.com](mailto:randywacker@inertech.com)

Reiner Zeuss - SGL Group [rainer.zeuss@sglgroup.com](mailto:rainer.zeuss@sglgroup.com)

Barry Anderson – Technetics [Barry.Anderson@technetics.com](mailto:Barry.Anderson@technetics.com)

Juan Meyer - Empak [mayer@empak.com.mx](mailto:mayer@empak.com.mx)

Mike Boyd - Triangle Fluid [mikeb@trianglefluid.com](mailto:mikeb@trianglefluid.com)

1. ***Approval of Agenda***
2. ***SWG Testing Standard***

* ***Round Robin Progress***
  + ***Test results or observations***
    - ***Results from Garlock – Empak – Yarmouth***
    - ***Testing complete but report to be received - A.W. Chesterton, Phil has report draft – Still pending AMTEC/James Walker***
    - ***Concentration and mass flow rate class levels determination – 25 ppm for class 1 Yes - OK to have a class 2 at 50 PPM all agree – It does depend a bit on gasket stress. Do we shoot for 25,000 psi gasket stress? 50 ppm is high – ISO uses the 50 ppm level also –mentioned in some enhanced LDAR consent decree, so the 50 ppm level is appropriate for connectors 250 ppm is a reporting level – If Daniel sees different equivalence he can advise of appropriate level - Mass flow rate measurement is still in question – Martin to elaborate – TaLuft should be minimum requirements – Daniel will further look into it and get back to Henri with some levels***
    - ***Appendix E Platens – API would prefer actual equipment but we could just include it and if another organization wants to use just some of it that is OK as well. EN 16752 is somewhat different than the ESA/FSA standard – Good to have the platen method as it is more accurate concerning the load, as there is always issues with the K factor and actual load applied with torque – Agreement to include the platen method (it does/need to take into consideration bolt load losses) – in EN 13555 there is a generic fixture – Ask AMTEC if we can use their picture - Daniel will make sure we have contact info***
    - ***Include alternative measuring method of using differential pressure measurement***
    - ***Review of Standard draft that includes differential pressure method - Approved***
    - ***ASTM F436 Thru-hardened washers need to be noted***
    - ***Specify min thread exposure or fastener length? - Thread length should extend beyond the nut. The thread type should be UNC.***
    - ***Change the flange assembly drawing to show studs, nuts and washers (Chett)***
    - ***Remove the two holes on the aluminum leakage sleeve to show one - Chett***
    - ***Phil to draft intro noting PCC-1 methodology***
    - ***Need to add nomenclature warning for pressurized flammable gas – Phil to draft(copy) safety note and send to Henri***
    - ***Second round robin? PTFE SWG?? KammProfile? Need larger group to decide – Who would test? Most likely the original test facilities – Most likely all set with Graphite SWG - next round would be with a different gasket type – if we include PTFE we will need to adjust the temperature 200C 400F?? Kammprofile and SWG and corrugated metal are all in B16.20 – Most likely do SWG with PTFE and Kammprofile – Could also check low grade/cost graphite SWG to see if it fails the test - First agenda topic for next meeting***

1. ***Handbook***

* ***Publication on Website***
  + ***Posted in ESA and FSA websites***

1. ***KnowledgeBase***

* ***Folder in SharePoint to collect material***
* ***Breaking down of Handbook in Chapters***
* ***Training material***
* ***Sealing sense – articles will need upload – administrator’s access rights***
* ***Other material – resource?***

1. ***FSA Standards***

* ***FSA-MG-501-02 STANDARD –***
* ***Steam Test ASTM F2716***
* ***M&Y Statement***
  + - 1. ***files with watermark – Completed – to be posted on website - Chett to double check with Hope***

1. ***Industry Standards***

* ***ASME B16.20 – Edition Year is 2017 - SWG room temperature test –Next Edition will be 2022.*** 
  + ***March meeting Notes distributed***
* ***API SWG testing adoption***
  + - 1. ***Other types of gasket – (semi-metallic, Kammprofile) – Might be useful to include a second gasket test in a second round robin***
  1. ***Sealing Sense Articles***
     1. ***Anti-Seize – Trish Stanislas, and Phil - target May 15 draft***
     2. ***Emission service? Go with Test Standard release***
     3. ***Other Publications***
        1. ***BIC***
        2. ***KCI***
        3. ***Flow Control***

1. ***Training – Webinars*** 
   * + 1. ***Webinars – Anti-seize series – To be worked on – Discussion with Tom Blake at Jet-Lube – Need better definition for the K factor - on the radar***
       2. ***Emission Summit – Gasket, Packing, Mechanical Seal and Expansion Joints scheduled – all material is with Hope and folks at KCI – need to verify and also get Marketing committee involved***
2. ***Government Affairs***
   * 1. ***Emission Regulation***
        1. ***EPA – Trying to roll back BOM (Bureau of Land Management) rule? – Various States permitting rules***
        2. ***Canada – Methane rule scheduled for this Year – Methane Alliance in Canada – presenting papers possibility***
        3. ***Alberta – Looking mostly at gross emitters – Filing a response to draft regulation to advocate for lower LDAR limits***
        4. ***Mexico Methane regulation – no update***
        5. ***IED (Industrial Emissions Directive) BATIS (Best Available Techniques Information System) and Brefs – Upgrade the ESA FSA document on Sealing Technology - gasket, packing updated - need more on Mechanical Seals, elastomers and Expansion Joint -***
     2. ***EDW – European Commission has issued new EDW – Deleted Article 10 of Directive – Article 10 implied mutual recognition of tests (UK, France Germany, Netherland) – A new testing regulation will be part of the Construction Products Regulations (CPR) which bases the test on CEN standards which are therefore full European standards – target for harmonized test for mid-2019 will be issued under EU regulation 305/2001.***
     3. ***WTO EGA – no movement – Tariffs on Steel and Aluminum – the China negotiations are up in the air – Negotiations with Europe not going well***
3. ***LCC***
4. ***Membership***
5. ***Marketing***
   * 1. ***promotion of Handbook***
     2. ***FSA, ESA website viewing***
6. ***Outreach Projects*** 
   * 1. ***VMA***
     2. ***HI – Technical Meeting coming up - Guide books recommendation - Commercial Buildings, packing write-up – Slurry Webinar – Condition Monitoring for rotary pumps – Engineering Data Book – Mechanical Seal Guideline – Variable Speed Drive Training***
     3. ***Emission Summit – June 2018 – http://americas.fugitive-emissions-summit.com/ - Training on for Monday***
     4. ***KCI Pump Summit – next June 2018 – Henri keynote session on Standards – Phil looking for presentations on emissions***
     5. ***Valve World – Dusseldorf November***
     6. ***Industrial Valve Summit 22/23 May 2019 in Bergamo***
     7. ***API - Need to contact on the Gasket test standard for the fall refining meeting***
     8. ***MSS interest in the gasket test***
     9. ***Power Gen***
     10. ***Chinese Packing and Gasket Association – Keep channels open***
     11. ***Indian Sealing Association***
     12. ***VDI -***
     13. ***BHRG – 24th Fluid Sealing Conference – No feedback from this group***
     14. ***ISA***
7. ***New Business***
8. ***Next meeting***
   * 1. ***June 21, 2018 9:00 AM EDT***
9. ***Adjournment***

***hva 5/25/18***