 **MINUTES**

**GASKET WORKING GROUP**

**MEETING**

**Dates:** July 24, 2018

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

**Present**:

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

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

Jacque Manders – South West Research [jacqueline.manders@swri.org](mailto:jacqueline.manders@swri.org)

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

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

Antonio Morales – Empak Spirotallic Mexicana SA DE CV [technology@empak.com.mx](mailto:technology@empak.com.mx)

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

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

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

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

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

Guillermo San Martin - Empak Spirotallic Mexicana SA DE CV [laboratorio@empak.com.mx](mailto:laboratorio@empak.com.mx)

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

**Absent:**

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

Arthur Hernandez – Nippon Pillar [arthur.hernandez@nipponpillar.com](mailto:arthur.hernandez@nipponpillar.com)

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

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

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

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

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)

Patricia Pichardo – Empak Spirotallic Mexicana SA DE CV[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)

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 Mayer – Empak Spirotallic Mexicana SA DE CV [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, working on graphs - AMTEC/James Walker in process – Please send the reports to Henri for compilation when completed.***
    - ***Concentration and mass flow rate class levels determination – 25 ppm for class 1 - class 2 at 50 PPM***
    - ***Mass flow rate measurement is still under consideration***
      * ***TaLuft should be minimum requirement***
      * ***We can use EPA conversion method or use calculations from ppmv levels***
      * ***For helium it would be best to use mg/m/s and not give concentration. The sniffer can be calibrated with the concentration to measure accurately (also sometimes use vacuum method) – TaLuft will go 10-2 using mean diameter of gasket – possibly use the equivalent ppm level but for large diameter gaskets the leakage rate is very high (over 1000 ppm) – May be still need both of mass flow rate and a concentration – one inch diameter flange gives the equivalent of 100 ppm – now the value of 0.0137mg/m/s is used – Can use B16.20 method or differential pressure method – Matt would like to see the per meter reference eliminated***
      * ***Henri to calculate the corresponding mass flow rate for our size (using B16.20 method) and evaluate how they are reasonable and compare to what TaLuft would require for that size gasket – Matt gets 0.0146 mg/s for 50 ppm – double check and review next time – Guillermo has the reference and can send to Henri***
    - ***25,000 psi gasket stress is the target***
    - ***Phil was to draft intro noting PCC-1 methodology and to add nomenclature warning for pressurized flammable gas – Ron and Chett will follow up***
    - ***Second round robin - Consensus during last meeting was to test both Kammprofile and a low quality –***
    - ***Test facilities, Chesterton, Garlock, James Walker, Yarmouth Research – AMTEC – Empack - Also possibility of Southwest Research, and - Henri to gather addresses of where to send***
    - ***Triangle Fluid will provide samples***

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***
* ***Chett broke down handbook into sections – Posted on SharePoint – All to look at handbook and volunteer – Henri to include spreadsheet with next meeting invitation***
* ***Sealing sense – articles will need upload – administrator’s access rights will have to be set up***

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, and elimination of double jacketed gaskets –Next Edition will be 2022.***
* ***Fall Meeting Monday, October 1, 2018 - B16 Subcommittee G - 8:00 AM – 12:00 PM - Hilton Denver City Hotel (1701 California, Denver, CO 80202).***
* ***API SWG testing adoption***
  + - 1. ***Other types of gasket – (Kammprofile) second round robin***
  1. ***Sealing Sense Articles***
     1. ***Repurpose Tightness article? Ron will look into it, Henri to send the article to Ron.***
     2. ***Emission service? Go with Test Standard release***
     3. ***Other Publications***
        1. ***BIC – Jim repurposed article on safety (down to 500 words)***
        2. ***KCI***
        3. ***Flow Control***

1. ***Training – Webinars*** 
   * + 1. ***Webinars – Anti-seize / K factor series - Discussion with Tom Blake at Jet-Lube – on the radar – Ron will follow-up***
       2. ***Emission Summit – Classes cancelled due to low sign-up – Issue on advertising and other activities at the time in Houston***
2. ***Government Affairs***
   1. ***Emission Regulation***
      1. ***Pennsylvania permits, which go into effect on Aug. 8 include methane recovery requirement***
      2. ***California, Ohio, Colorado, Wyoming. Keep monitoring***
      3. ***Canada – regulations respecting reduction in the release of Methane and Certain volatile Organic Compounds released April 26, 2018 - Implementation is 2020 – Alberta proposed regulation - we submitted comments on 5/27/18 proposing lower limits for repairs on flanges for LDAR program***
      4. ***Mexico – Draft just released – Will see if we can coordinate comments – Guillermo and Antonio to check into it***
      5. ***IED (Industrial Emissions Directive) BATIS (Best Available Techniques Information System) and Brefs – Upgrade the ESA FSA document on Sealing – Some comments sent out - David to review comments***
   2. ***DWD – Drinking Water Directive (DWD) in Europe. The Commission is sticking to its view that Construction Products Regulations (CPR) will solve the problem of multiple testing of materials and products used in drinking water. This despite there are no CPR rules and tests for Pumps, Valves, Gaskets and many other common items. Keep Monitoring – EDW association lobbying for changes and one single test***
   3. ***Environmental Goods – Tariffs trade wars - full blown with Europe and Canada – See*** ***Newsletter 20 July 2018 Standards and Legislation update from ESA – New $200 billion round will include a lot of raw materials that re used in gaskets (10%) tariff) include things like graphite, rubber, etc.***
3. ***LCC***
4. ***Membership*** 
   * 1. ***Leader Gasket – moving their facilities and not interested right now***
     2. ***Klinger – Ron to follow-up***
     3. ***SGL - Chett***
5. ***Marketing***
   * 1. ***promotion of Handbook***
     2. ***FSA, ESA website viewing***
6. ***Outreach Projects*** 
   * 1. ***VMA -***
     2. ***HI – 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 – Lunch and Learn variable speed effect on mechanical seals***
     3. ***Emission Summit – Phil presentation on gasket emission – Interest in going to higher temperature from SGL - Nothing much new other than drone mounted camera, OGI, giving readings in ppm***
     4. ***KCI Pump Summit – Henri keynote session on Standards – Low attendance***
     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***
     14. ***ISA***
7. ***New Business***
8. ***Next meeting***
   * 1. ***Tuesday August 28, 2018 9:00 AM EDT***
9. ***Adjournment***

***hva 7/24/18***