



**COMPRESSION PACKING  
WORKING GROUP  
Go-to-Meeting Conference  
*December 18, 2017***

**Present:**

Antonio Morales - Empak Spirotallic  
Chris Boss - Garlock Sealing Technologies  
Ron Frisard - A.W. Chesterton  
Lee Gillette - WL Gore  
John Morton - John Crane  
Ralf Vogel - Burgmann Packing  
David Edwin Scott - ESA  
Greg Raty - Slade  
David Mitchell - ESA  
Lewis Geoffrey - Dupont  
Mike Kupin - Garlock Sealing Technologies  
Hans Dekker - A.W. Chesterton  
Fiber Line  
Carl Jones - WL Gore  
Jim Drago - Garlock Sealing Technologies  
Francesca Torriani - General Packing  
Phil Mahoney - A.W. Chesterton  
Guillermo San Martin - Empak Spirotallic  
Henri Azibert - FSA (603) 475-4335

[technology@empak.com.mx](mailto:technology@empak.com.mx)  
[chris.boss@garlock.com](mailto:chris.boss@garlock.com)  
[Ron.Frisard@chesterton.com](mailto:Ron.Frisard@chesterton.com)  
[lgillett@wlgore.com](mailto:lgillett@wlgore.com)  
[John.Morton@johncrane.co.uk](mailto:John.Morton@johncrane.co.uk)  
[ralf.vogel@burgmannpackings.ie](mailto:ralf.vogel@burgmannpackings.ie)  
[david.edwinscott@europeansealing.com](mailto:david.edwinscott@europeansealing.com)  
[graty@slade-inc.com](mailto:graty@slade-inc.com)  
[daemitch@btinternet.com](mailto:daemitch@btinternet.com)  
[Geoff.Lewis@dupont.com](mailto:Geoff.Lewis@dupont.com)  
[mike.kupin@garlock.com](mailto:mike.kupin@garlock.com)  
[hans.dekker@chesterton.com](mailto:hans.dekker@chesterton.com)  
  
[chjones@wlgore.com](mailto:chjones@wlgore.com)  
[jim.drago@garlock.com](mailto:jim.drago@garlock.com)  
[francescatorriani@generalpacking.com](mailto:francescatorriani@generalpacking.com)  
[Phil.Mahoney@chesterton.com](mailto:Phil.Mahoney@chesterton.com)  
[ingenieria@empak.com.mx](mailto:ingenieria@empak.com.mx)  
[henri@fluidsealing.com](mailto:henri@fluidsealing.com)

**Absent:**

Martin Coulthard - James Walker  
Linda Finnegan - New England Braiding  
Thomas Jessup - EGC  
Rob Garlock - EGC  
Patricia Pichardo - Empak  
María García Gorrichategui - Montero Fye S.A  
Mark Neal - ESA  
Jakub Marczyk - James Walker  
Laverne Fernandes - Garlock Sealing Technologies  
Jeff Bernthisel - EGC  
Mark Richardson - James Walker  
Arthur Hernandez - Nippon Pillar  
Larry Sheffield - Inertech

[martin.coulthard@jameswalker.biz](mailto:martin.coulthard@jameswalker.biz)  
[Linda@anti-keystone.com](mailto:Linda@anti-keystone.com)  
[thomjessup@egc-ent.com](mailto:thomjessup@egc-ent.com)  
[robertg@egc-ent.com](mailto:robertg@egc-ent.com)  
[desarotecno@empak.com.mx](mailto:desarotecno@empak.com.mx)  
[laboratorio@monterofye.com](mailto:laboratorio@monterofye.com)  
[markneal@europeansealing.com](mailto:markneal@europeansealing.com)  
[jakub.marczyk@jameswalker.biz](mailto:jakub.marczyk@jameswalker.biz)  
[laverne.fernandes@garlock.com](mailto:laverne.fernandes@garlock.com)  
[jeffb@egc-ent.com](mailto:jeffb@egc-ent.com)  
[mark.richardson@jameswalker.biz](mailto:mark.richardson@jameswalker.biz)  
[arthur.hernandez@nipponpillar.com](mailto:arthur.hernandez@nipponpillar.com)  
[larrysheffield@inertech.com](mailto:larrysheffield@inertech.com)

**I. Approval of Agenda**

**II. Handbook**

**a. Reformat of existing material – Last session December 6 – next session January 8 – Still to do:**

- i. References to pages, tables and figures**
- ii. Standards summary and spreadsheet link – Got info from Ralf – Jim transferred material into draft and sent to Ron – Then Ron and Jim to keep working on it – Henri to resend all the information to Ron**

**b. New Material**

- i. Environmental controls - Power consumption - Differences between packing and mechanical seals - Spreadsheet on standards**
- ii. Review Process – Send to distribution list of meeting for first review – Then go through formal process to Technical Coordinating Committee and Voting members at FSA – For ESA send for comments for approval – Go to Compression Packing Members then to all the Technical Directors**

**III. Joint FSA ESA Projects-**

**a. Pump Packing Friction Study**

- i. Complete**
- ii. Need to check on whether money is due to CETIM – not invoiced for over a year but additional testing has been done (carbon Packing) – David (E) to check.**

**b. LCC**

- i. Ryan Neris from Ergoseal working with Mark Savage on revising the spreadsheet program**
- ii. Change of the LCC platform – No Schedule yet**

**c. Valve Packing Study**

- i. Presentation from CETIM and Spreadsheet – Comments to decide next step? User interface? Henri to send spreadsheet with next meeting invitation – Still waiting for comments – Now too much information – too complicated – need to simplify – make it a bit more user friendly – Need to put comments together to relate back to Hubert**
- ii. Two more tests done with different variables - different packing and installation (each ring compressed, or all set done at once) methods show significant differences in leakage rates - More information expected at next meeting – each manufacturer has specific installation procedures – If there is reliance on the spreadsheet but the end user does not follow instructions, the actual results could be very different from the calculated ones – Should get more information in the next 30 days and definitely by the annual meeting**

**IV. Education projects.**

- a. FSA Webinar(s) Plan at beginning of next year – one per quarter goal – Use launch of the manual – similar to what has been done with gaskets – Phil has possibility to do one on bolt lubrication – All this material needs to be collected for the KnowledgeBase**

- b. *Valve World Training – Presentation material on SharePoint – How about next June? Phil to follow up with André – Possibility of repeating/updating previous classes (Ron and Jim)*
- c. *ESA Packing training material*
  - i. *ESA working on the animations and voice over – A couple sections just about finished*
  - ii. *Delivery/platform method is in question and still needs to be determined – David to talk to web developers– KnowledgeBase?*
- d. *KnowledgeBase*
  - i. *Sealing Sense Articles Repository – funding approved for programming – Then need to upload all the documents*
  - ii. *Folder set up on SharePoint to gather material*
  - iii. *ESA Participation – Executive Committee review – If decision is made, there would be formal approach of the FSA Board – Phil to let Board know of activity*

## V. **Standards & Regulations**

- a. *API 622 – 640 - 641- 602 - 623 – 621 - 608*
  - i. *622 – 1/8” cross section – 100 PPM no adjustments – 624 defers to 622 – In the 3<sup>d</sup> edition of 622, if multiple sites manufacture a product, it needs to have all products from different sites tested*
  - ii. *621 reconditioning was up for ballot – Did not pass - resolution required – Task force changes – Mike answered certain questions – in progress – This was only one of the topics on the list to be resolved – there might be more*
  - iii. *641 Clarification requested by Phil – Definition about emission measuring equipment and capability – Checking with test Facilities now*
  - iv. *608 to require 641 testing*
  - v. *624 – Testing for same product not required from every manufacturing site – Draft circulating requiring 622 testing 3<sup>d</sup> edition – all three tests required: emission, corrosion, chemical – Some question need resolution: grandfather previous testing? Moving test temp from 500 to 600°F – Then what about previous test results? Comment to be given to API*
- b. *ISO 15848 – no activity*
- c. *ESA – PD 002 (BS 4371) – updated draft from David - MSS question: Phil met with Greg Johnson and other task force members, provide draft of the document without Appendix to MSS, David and Phil to follow up – Need meeting to discuss latest draft – New draft coming soon*
- d. *EN 16752 – no activity*
- e. *Emission Regulation*
  - i. *EPA Rule on Methane still in effect and Congress reaffirmed – Also Court action to keep Regulation in place*

- ii. *States action monitoring: Pennsylvania, California, Colorado, Wyoming*
- iii. *Canada rule – Beginning 2018*
- iv. *Alberta issuing regulations – Go primarily after high leakers, end users push back – High leakage levels were considered for small processing facilities in Western territories*
- v. *IED (Industrial Emissions Directive) - ESA updating Emissions Reduction Document and Sealing BAT added to is Best Available Technigues Information System (BATIS)– IPPC document also posted with IED requirements - Position paper from ESA on sealing technology to reduce fugitive emissions accepted — Generic discussion on sealing devices and what to be expected – Should be included in the BREFs - New rules require local authorities to license plants Excellent results*
- f. *WTO EGA limited activity*
- g. *EU Drinking water standards – EDW –Local individual states (Germany) want to have more stringent test– Waiting for response from European body– Meeting tomorrow 12/19/2017 in Brussels – One country that wants individual testing is Germany but looking for harmonization – There is hope in chaos!*
- h. *Food contact Graphite – EC 1935/2004: Follow German regulation and declare compliance from ESA - Annex to be updated as carbon graphite is missing – Migration test for complete assembly – Still no idea on how this applies to Compression Packing or Gaskets*
- i. *EPA Clean Water – No action*
- j. *PFOA Contamination – No action*
- k. *Other*
  - i. *Phil has been working with the CMES – Still on-going*

## **VI. Publications**

- a. *Sealing Sense Articles*
  - i. *API 641 Rotary Phil*
  - ii. *Bolting and Lubricants (Trish/Phil)*
  - iii. *Other*
- b. *Pumps and Systems invitation for February Special Section on Sealing Technology -*
- c. *Other*
  - i. *Pump Engineer*
  - ii. *Chemical Engineering*
  - iii. *BIC*

## **VII. Outreach Projects**

- a. *Fluor/Canada*
- b. *VMA – Technical meeting 2018 -*
- c. *A&M Pump Show – Booth presence*



- d. **HI – Co-located meeting - Guide books recommendation - Commercial Buildings, packing write-up – Slurry Webinar – Condition Monitoring for rotary pumps – Engineering Data Book - Lunch and Learn Stuffing box design on SharePoint**
- e. **Emission Summit – June 2018 – <http://americas.fugitive-emissions-summit.com/>**
- f. **KCI Pump Summit – next June 2018 – Henri asked to do keynote session on Standards – Phil talking to André about training classes**
- g. **Industrial Valve Summit 22/23 May 2019 in Bergamo**
- h. **API – Refining Meeting - API 682 task force meeting – Presentation on SWG testing standard**
- i. **Power Gen – no plans**
- j. **Chinese Packing and Gasket Association – Keep channels open - John Morton could send ESA annual meeting invite**
- k. **Indian Sealing Association – Monitor**
- l. **World Tribology Conference**
- m. **STLE – 2018 Annual Meeting - May 20-24, 2018 Minneapolis Convention Center - Presentation Submission Site for 2018 Tribology Frontiers Conference now open, October 28-31, 2018 at the Drake Hotel in Chicago**
- n. **BHRG – 24<sup>th</sup> Fluid Sealing Conference – 3/7-8/2018 Manchester UK - Abstracts for elastomers - David on Technical committee – Buy one get one free promotion throughout December.**

**VIII. New Business**

**IX. Next Session**

**a. January 26, 2018**

**X. Adjourn**

**hva 12/18/17**