



MINUTES OF THE 15th COMMITTEE MEETING OF THE EUROPEAN SOCIETY OF RHEOLOGY

Nantes, (France)
Wednesday, April 15th, 2015
18:00 – 19:30 h
Cité des Congrès de Nantes

The meeting was organised in conjunction with the AERC2015. The President of the ESR, Mats Stading, opened the meeting welcoming ESR delegates, ESR representatives of individual members and guests from the wider rheological community.

The officers of the ESR and delegates of 14 European Rheology Groups and associated as well as 8 representatives were present (see Appendix 1).

The Agenda, as emailed by the ESR Secretary, Jean-François Tassin, on March 9, 2015, was accepted.

Topic 1. Minutes of the 14th ESR Committee Meeting (Karlsruhe, Germany, 2014)

The Minutes of the 14th ESR Committee Meeting, as emailed by the ESR Secretary, Jean-François Tassin, on February 20, 2015, were accepted by acclaim.

Topic 2. Report by ESR President, Mats Stading

Since the last Committee Meeting in Leuven, in April 2014, the Executive Council of the ESR has been conducting actively the business of the ESR.

Official ESR Executive Council meetings :

- 1) Paris (France, December 2014)
- 2) Nantes (France, April 2015)

- Mats report is given in Appendix. The main points are mentioned below
 - Increased interest for AERC meetings
 - Weissenberg award recognizing Dimitris Vlassopoulos' contributions
 - A new statue has been chosen for the award
 - Roland Keunings is deeply thanked for his participation to the Award Committee
 - Several contacts with national societies such as Turkey, Poland, Bulgaria, Hungary; Israel and Kazakhstan are ongoing

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- The website had a significant increase of visits thanks to AERCs, access to Rheologica Acta and Applied Rheology, as well as newsletters, jobs advertisements. Unfortunately, the web site experienced hacker attacks and strong disturbances.
 - The subcommittee for increased industrial participation as analysed the situation and will make suggestions to the ESR Committee.
 - 9 representatives of individual members, selected by vote of the members through the website were welcomed in the Committee

Topic 3. Report by ESR Treasurer, Mike Webster

Mike Webster presented the financial report for 2014/2015, which is attached as Appendix 2. The financial report was approved unanimously by the ESR Committee, and the Treasurer was thanked.

Topic 4. Report by European Editor, Jan Vermant

The report of the European Editor on the latest developments concerning Rheologica Acta was presented by Jan Vermant. The main points of the European Editor report were :

- Rather stable activity as compared to previous year
- Review articles, Weissenberg award lecture paper, Thematic issue - Prof. S. Guido (guest editor), Early career Issue in addition to normal papers
- Renewal of the Editorial Board

Jan was thanked for the good work carried out so far.

On responding a question, Jan mentioned that double submitting was not permitted and that the authors are reprimanded.

Topic 5. Report by ESR Website Editor, Johan Wiklund

Johan Wiklund presented the report from the Subcommittee on Rheological Expertise in Europe (“website committee”), which is attached as Appendix 3.

- There are positive aspects of the statistics, namely the increased use and the important part of the new generation.
- The website, as constructed by OneInnovation using Word Press is very complex, with too many plugins. It is difficult to up-date and vulnerable to outside attacks.
- The Executive Council of the ESR investigates upgrade or change of the website, by making a choice of essential activities and optional functionalities. Different web companies are asked for quotes.
- An open discussion started where a change of web company was mentioned by several delegates, because of the difficulties with One Innovation and despite the money already spent.
- The delegates decide unanimously to end all relations with OneInnovation and and search for another company to build the ESR web site. The Committee set a limit of 10 000 Euro for an update before the next Committee meeting. The Website Committee was asked to make a specification for the ESR web site and to find a new

web company.

Topic 6. Report of the Subcommittee for Increased Industrial participation

Jan Engmann gave the presentation whose slides are given in appendix. Below are some suggestions :

- Discussion sessions (led by expert panels) for areas of joint interest between academic and industrial rheology
- Well-equipped « discussion booths » in meeting areas. (sign-up could be requested)
- Review number and themes of parallel sessions regarding joint interests, bring together different perspectives (academic, industrial) for specific types of material (e.g. foams, polymer solutions)
- « Applications session » throughout the meeting (focused on solutions, innovations, whether they come from industry or not).
- Coaching: how to communicate mathematical topics effectively
- Some possible « frontier topics » for industry:
 - High throughput and automation
 - New manufacturing processes
 - Psychophysics / psychorheology
 - Biomimicking

Markus Galheitner pointed that high degree of expertise in rheology does not necessarily solve rheology problems, that non rheologists can solve rheology problems, that one needs to motivate industrial people to read rheology papers, but that there are language issues. He mentioned that Applied Rheology was interesting for industrials.

Topic 7. Report on AERC 2015

Michel Cloitre presented a short report on AERC2015, which was running quite well.

- The main event was the large number of participants (583) with 351 full rate and 179 students coming from 37 countries. The organization went well, both from the scientific and the practical point of view. A positive balance is expected in terms of financial situation, thanks to a good support from sponsors, but many participants still need to pay (or their institution).
- Michel shared some additional comments :
The number of submissions was surprisingly high. If the number of participants is growing, the length of the conference has to increase. (3.5 or 4 days)

The open discussion mentioned that some delegates were not favorable to increase the length and that a compromise has to be made by shifting oral talks to posters. However, the size of AERC is close to the size of SoR meetings which are 3.5 days long.

Topic 8. Decisions on location for AERC2017 and AERC2018

A bid from the Romanian Society was presented for Bucharest in 2017.

A bid from the Nordic Society was presented for Copenhagen in either 2017 or 2018.

A bid from the Spanish society was presented for Granada in 2018.

A bid from the Italian society was presented for Sorrento in 2018.

The delegates voted and chose :
2017 : Copenhagen (14 votes against 8 for Bucharest)
2018 : Sorrento (13 votes against 9 for Granada)

Topic 9. Election of delegate and Chairman in the Weissenberg Award Committee

Dimitris Vlassopoulos was elected unanimously to replace Roland Keunings in the Weissenberg Award Committee.
Mats proposed that the President is separated from the committee. He should only be a link between the Award Committee and the Executive Council. The nominations should go to an appointed Chairman of the Award Committee directly. Ole Hassager was elected as the Chairman of the Award Committee.

Topic 10. Any other topic

- Changes in the constitution (in bold)

In order to be in-line with the current operation of the society, Manfred proposed to adopt the following text :

4. Operation of The Society

*The Committee shall elect Honorary Officers of The Society, not necessarily from among the Representatives or Delegates. The Officers shall be the President, Past-President, Secretary, Treasurer and two Members-at-large. The Officers shall be elected for a period of four years and form the Executive Council of The Society. The President shall be Past-President for the next four-year period. **The European Editor shall be ex-officio officer of The Society and member of the Executive Council.***

The change was adopted unanimously.

Topic 12. Place and date of next meeting

The next Committee meeting will be held in Zürich (Switzerland), March 31, 2016. Exact time and location will be announced in due time.

March 6, 2016

Mats Stading
ESR President

Jean-François Tassin
ESR Secretary



Appendix 1

Participants in the 15th ESR Committee Meeting, Nantes, April 15th, 2015

ESR Officers:

Mats Stading
Críspulo Gallegos
Mike Webster
Jean-François Tassin
Pier Luca Maffettone
Peter Fischer (also Swiss delegate)

Co-opted Members :

Manfred Wagner

European Editor

Jan Vermant

Chairman of the website committee :

Johan Wiklund

ESR Delegates:

Michel Cloitre (France)
Peter Fischer (Switzerland)
Ulrich Handge (Germany)
Anxton Santamaria (Spain)
Joao Maia (Portugal)
Maria Theresa Ciudade (Portugal)
Mario Minale (Italy)
George Petekidis (Greece)
Corneliu Balan (Romania)
Peter Van Puyvelde (Belgium)
Patrick Anderson (Netherlands)
Markus Gahleitner (Austria)
Helen Wilson (UK)
Stefania Baldursdottir (Nordic Society)
Johanna Aho (Nordic Society)
M. Holdenwang (South Africa)

ESR representatives of members

Thomas Schweitzer
Evelyne Van Ruymbecke
Paula Moldenaers
Christian Clasen
Norbert Willenbacher
Philippe Cousot
Suzanne Fielding
Gianni Ianniruberto



Report from the President

April 2015

The last year has been a period of expansion for the ESR. The number of participants to the Annual Conference is increasing, we reach more rheologists through the web site and there is an increased interest from new societies and individual members to join the ESR. The Executive Council has in 2014 met in Karlsruhe on April 9 and in Paris on December 19.

After a successful AERC in Karlsruhe with a record high number of participants, there are even more participants attending the AERC in Nantes. The organising committee has done a superb work to prepare everything to host all the participants and to set up an interesting program. This year we will have the pleasure of handing out the Weissenberg Award and the worthy awardee is Dimitris Vlassopoulos. The Award Statue is new for this year and is a frozen flow in transparent and blue glass where the artist has freely interpreted the Weissenberg effect in terms of achievements and the strive for new knowledge. Roland Keunings has served in the Award Committee for several years and I would like to express my gratitude as he now steps down. Regarding the Award Committee I have also proposed a change so that the Committee will have chairman instead of a coordinator (the ESR President) in order to become separated from the Executive Council.

Through the year there have been several contacts with national societies who have expressed an interest in joining the ESR. The societies from Turkey, Poland, Bulgaria, Hungary, Israel and Kazakhstan have all expressed a degree of interest for the ESR and the discussions are on-going. There is also increased contact with individual rheologists through the web site. In 2014 the use of the web site doubled as did the number of users as compared to 2013. The web server capacity had to be increased in October 2014 to handle the increased traffic. Much of the traffic refers to the AERCs, and the kindly contributed on-line access to *Rheologica Acta* by Springer, as well as to *Applied Rheology* also draws substantial interest. There is an increased interest for other events too, as for the Newsletters, job advertisements and the discussion forum. The backside of the increased web traffic is that the web site has not kept up technically with disturbances and impaired access as a consequence. There have also been three major hacker attacks which inflicted further problems. This has been especially troublesome for the AERC organisers, who despite this have been able to ensure a smooth handling of information flow as well as handling of abstract and registrations.

The Sub-committee for increased industrial participation have throughout the year analysed the industrial participation and present their suggestions to the ESR Committee. The voting for the representatives of the ESR individual members was performed through the web site and we welcome nine new representatives in the ESR Committee.

Mats Stading
President of the ESR

Gothenburg, April 8 2015

ESR bank statements 2014/2015

12/04/2015

Sort code 30-90-04

date	particulars	payments	receipts	balance (GBP)		payments	receipts
		£	£	00548460	00370394	£	£
				BIA. Acc. Running Tot	Chq. Acc. Running Tot	OverAll Total	
	Rate: Eu@1.2			9287.90	171.53	9459.43	
	Opening balance 2013/2014, 20/04/14			9287.90	171.53	9459.43	
20/04/2014	Opening balance			9287.90	171.53	9459.43	
28/04/2014	Funds transfer (Bus. To Treas. Acc)	100.00		9187.90	271.53	9459.43	100.00
	website 2014 (One Innovation, 2014-162), 1125SEK			9187.90	166.68	9354.58	104.85
28/04/2014	Yr fee - website 2013, (One Innovation funds trf chg)			9187.90	151.68	9339.58	15.00
28/04/2014	PayPal { ESR subs-fees *3}			9187.90	335.48	9523.38	
09/05/2014	Net credit interest		0.38	9188.28	335.48		
09/06/2014	Net credit interest		0.39	9188.67	335.48		
09/07/2014	Net credit interest		0.38	9189.05	335.48		
11/08/2014	Net credit interest		0.42	9189.47	335.48		
	website 2014 (One Innovation, 2014-178+ 1145SEK), 1125SEK			9189.47	235.14	9424.61	100.34
26/08/2014	Yr fee - website 2013, (One Innovation funds trf chg)			9189.47	220.14	9409.61	15.00
26/08/2014	PayPal { ESR subs-fees *3}			9189.47	339.71	9529.18	
09/09/2014	Net credit interest (est)		0.37	9189.84	339.71		
	AERC 2014 Karlsruhe: Delegate fees (320°40+116°20) 15320€@1.3055		11734.97	20924.81	339.71		
30/09/2014	MailPoet Blogger Annual Fee (75€@1.2382)			20924.81	279.14	21203.95	60.57
09/10/2014	Net credit interest		0.55	20925.36	279.14		
10/11/2014	Net credit interest		0.92	20926.28	279.14		
03/11/2014	Funds transfer (PayPal To Treas. Acc)			20926.28	338.07	21264.35	58.93
	website 2014 (Oderland, Inv 66693+58735 Prem+, Trf domain names), 823.56+1200 SEK			20926.28	161.88	21088.16	176.19
04/11/2014	website 2014 (Oderland, funds trf chg)			20926.28	146.88	21073.16	15.00
04/11/2014	website 2014 (Oderland, Inv 683095 Domain Renewal), 99 SEK			20926.28	138.18	21064.46	8.70
04/11/2014	website 2014 (Oderland, funds trf chg)			20926.28	123.18	21049.46	15.00
28/11/2014	Funds transfer (Bus. To Treas. Acc)	1100.00		19826.28	1223.18	21049.46	1100.00
	website 2014 (One Innovation, 2014-188), 10,000SEK			19826.28	344.96	20171.24	878.22
28/11/2014	website 2013, (One Innovation funds trf chg)			19826.28	329.96	20156.24	15.00
09/12/2014	Net credit interest		0.81	19827.09	329.96	20157.05	
12/12/2014	Funds transfer (Bus. To Treas. Acc)	1175.00		18652.09	1504.96	20157.05	1175.00
	website 2014 (One Innovation, 2014-190), 13,500SEK			18652.09	332.30	18984.39	1172.66
12/12/2014	website 2014, (One Innovation funds trf chg)			18652.09	317.30	18969.39	15.00
09/01/2015	Net credit interest		0.80	18652.89	317.30		
01/02/2015	Funds transfer (Bus. To Treas. Acc)	500.00		18152.89	817.30	18970.19	500.00
	website 2015 (One Innovation, 2015-193), 5000SEK			18152.89	403.14	18556.03	414.16
01/02/2015	website 2015, (One Innovation funds trf chg)			18152.89	388.14	18541.03	15.00
09/02/2015	Net credit interest		0.79	18153.68	388.14		
	website 2015 (Oderland, Inv 76425 Prem+), 4008SEK			18153.68	70.17	18223.85	317.97
25/02/2015	website 2015 (Oderland funds trf chg)			18153.68	55.17	18208.85	15.00
25/02/2015	Funds transfer (PayPal To Treas. Acc)			18153.68	255.21	18408.89	200.04
04/03/2015	Anton Paar (1st ed Pub Award)	1067.07	1067.07	18153.68	255.21	18408.89	
09/03/2015	Net credit interest		0.71	18154.39	255.21		
20/03/2015	Funds transfer (Bus. To Treas. Acc)	1800.00		16354.39	2055.21	18409.60	1800.00
	Weissenberg Award 2015-20, 5*500Eu@1.3355			16354.39	183.25	16537.64	1871.96
23/03/2015	Weissenberg Award 2015-20, funds trf chg			16354.39	168.25	16522.64	15.00
	website 2015 (Oderland, Inv79645 dom-renew), 99SEK			16354.39	160.30	16514.69	7.95
12/04/2015	website 2015 (MaxCDN, Inv587140 net-serv), 90\$@1.4638 (est)			16354.39	98.82	16453.21	61.48
10/04/2015	Net credit interest (est)		0.71	16355.10	98.82		
	Closing balance 2014/2015, 20/04/15	5742.07	12809.27	16355.10	98.82	16453.92	5310.05
			chk-sums	16355.10	98.82		
Summary		2014/15	2014/15	2013/14	2013/14		
		£	£	£	£		
to 20/4/2014	Opening balances		9459.43		12814.47		
(01/01/2014 to	Receipts						
31/12/2014)	Total net credit interest		7.23		4.06		
Charity Comm)	Delegate fees AERC 2014 Karlsruhe		11734.97		4967.08		
	PayPal { ESR subs+ receipts}		562.34		31.50		
	12103.03		12304.54		5002.64		
(01/01/2014 to	Payments						
31/12/2014)	Bank Funds transfer charges 2014	135.00		15.00			
	One Innovation www 2014-15	2670.23		0.00			
	www domain+MailPoet+Oderland+MaxCDN charges	632.86		0.00			
Charity Comm)	Other misc.charges (Weiss & ESR Awards)	1871.96		1195.84			
	1524.46	5310.05		1210.84			
	Turnover		6994.49		3791.80		
to 20/4/2015	Closing balances		16453.92		16606.27		
Trend/Ratio Analysis							
	Turnover:Capital (ROCE - profitability)		0.74		0.30		
	Receipts:Payments (incomings-outgoings)		2.32		4.13		
	Payments:Capital (Liquidity)		0.56		0.09		



European Editor Report To the European Society of Rheology

01-04-2014 until 01-04-2015

Jan Vermant



papers published (2014)

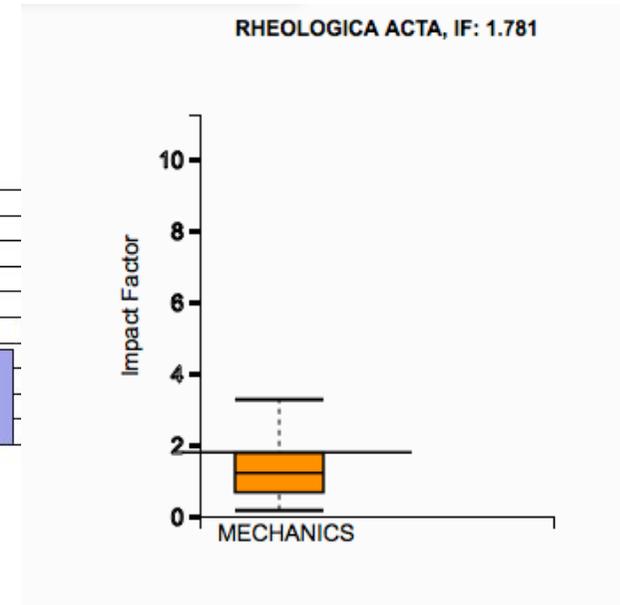
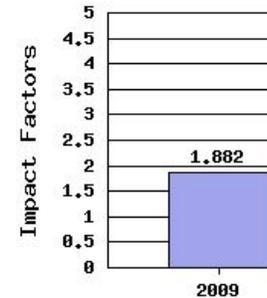
- Rheologica Acta : 81 - 10 issues
(total : 4,287 articles in 54 volumes)
- Journal of Rheology : 114
(total : 7,508 articles in 59 volumes)
- JNNFM : 99
(total : 8,533 articles in 216 volumes)

Statistics

- Impact Factor (2014): 1.78
(5y avg) : 2.02

Rank in MECHANICS 34/139 (Q2)

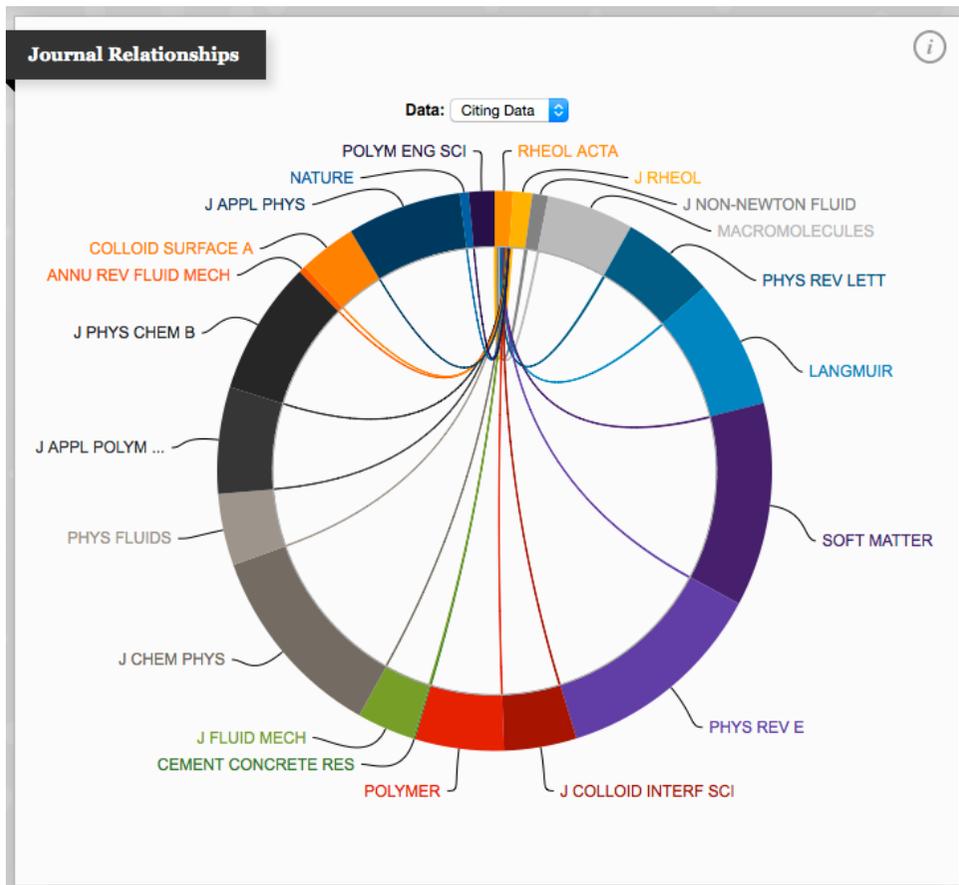
Cited Half-Life: >10.0 years



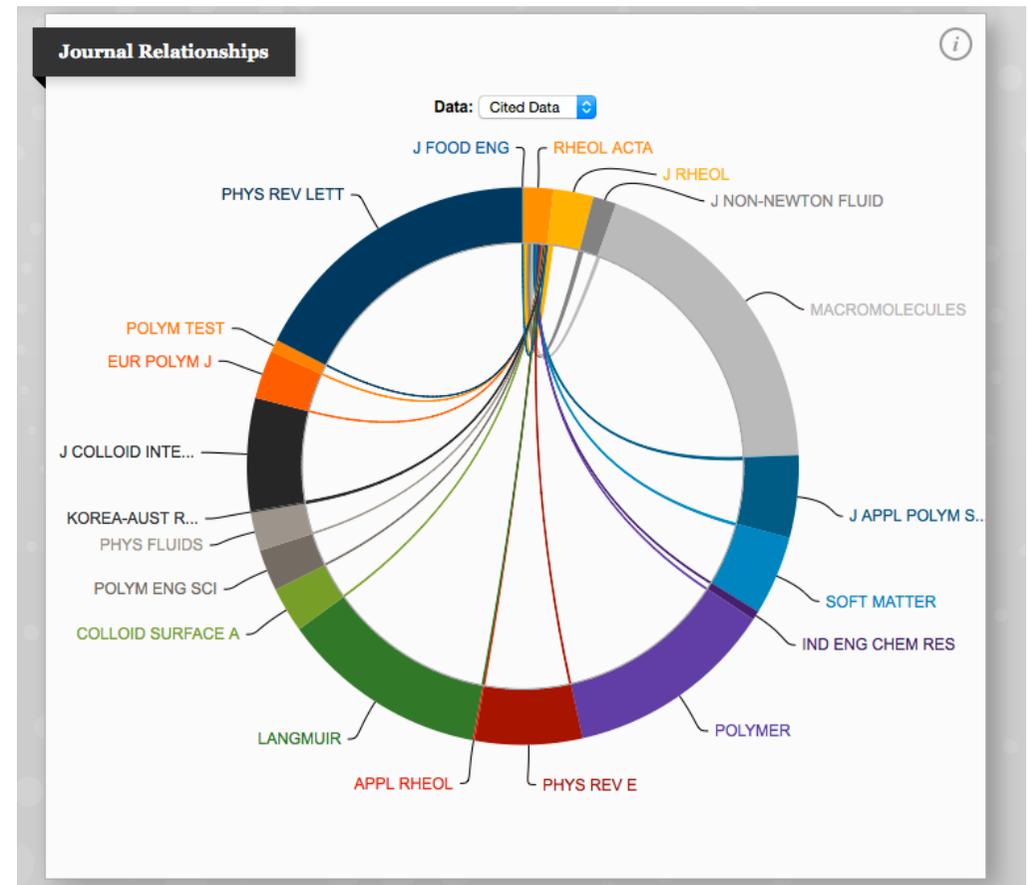
- Other Journals

Journal	IF (2013)	IF (5y AVG)
JOR	3.30	3.2
RA	1.78	2.3
JNNFM	1.94	1.95
Biorheology	1.59	2.1
Appl Rheol.	1.6	1.5
Kor-Aus JOR	0.63	0.69

CITING



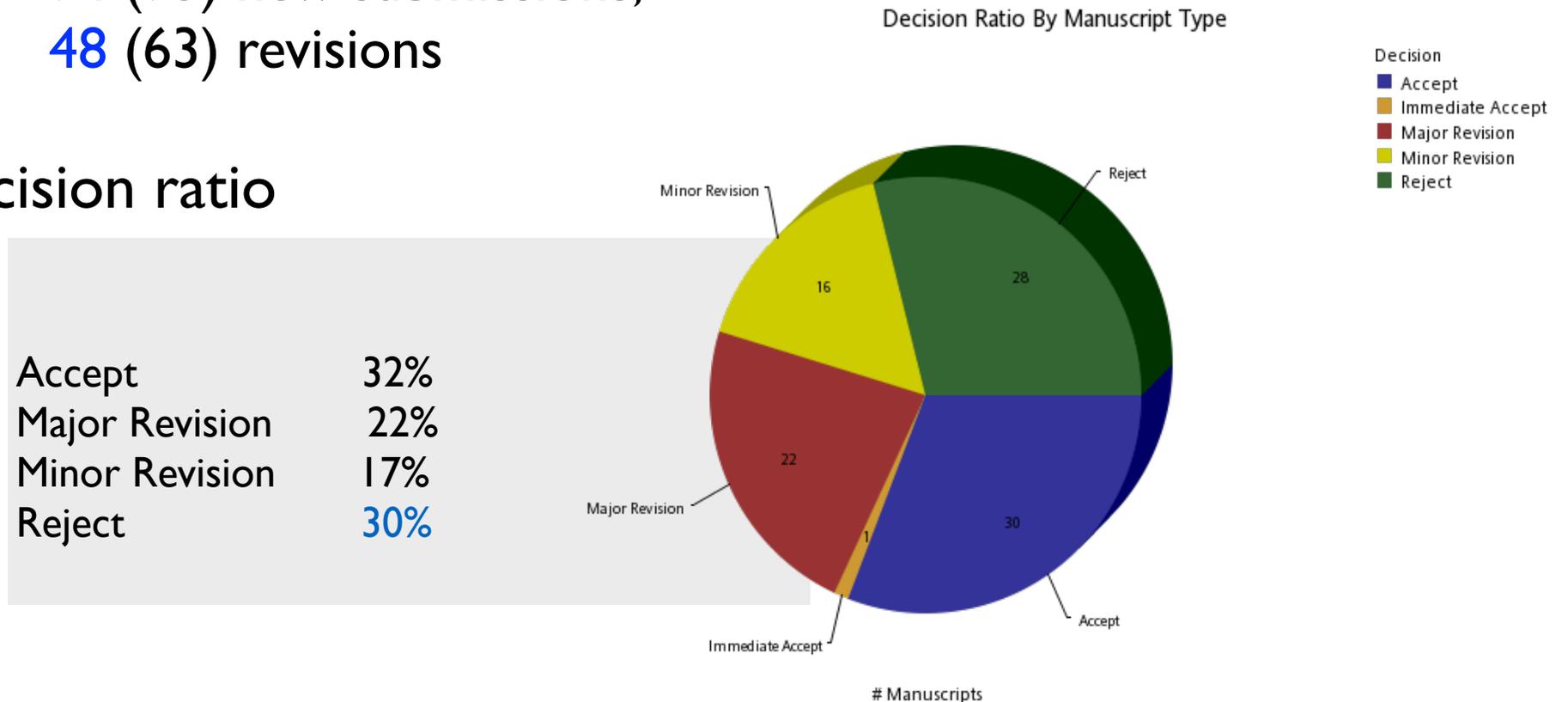
CITED



Statistics-2

- Manuscripts received (last 12 Months, european editor only)
 - 74 (75) new submissions,
 - 48 (63) revisions

- Decision ratio



Rejection rates (DV) : for 2010 43%, for 2009: 32%; for 2008: 29 % ; for 2007: 31%
 Rejection rates (JV) : for 2011 - 36%, 2012 -31% - 2013 - 32% - 2014 - 43%

Statistics - 3

- Avg. days from submission to first decision 50 (45)
- Avg. days from submission to final decision 79 (86)
- Total Pending Manuscripts : 14
- Oldest manuscript without a decision 92 days
- Acceptance ratio 0.55 (0.49)

All papers undergo screening by editor or editorial board member

e.g. mere data reports do not get sent out for review

for some we hope that reviewers are willing to educate the authors.

Statistics - 4

- Most cited papers (last 5yrs)

Use the checkboxes to remove individual items from this Citation Report		221	310	550	673	122	1932	276.00
<input type="checkbox"/> or restrict to items published between <input type="text" value="2010"/> and <input type="text" value="2015"/> <input type="button" value="Go"/>								
<input type="checkbox"/>	1. A double wall-ring geometry for interfacial shear rheometry By: Vandebril, Steven; Franck, Aly; Fuller, Gerald G.; et al. RHEOLOGICA ACTA Volume: 49 Issue: 2 Pages: 131-144 Published: FEB 2010	10	10	17	20	3	65	10.83
<input type="checkbox"/>	2. Viscoelastic properties of MR elastomers under harmonic loading By: Li, W. H.; Zhou, Y.; Tian, T. F. RHEOLOGICA ACTA Volume: 49 Issue: 7 Pages: 733-740 Published: JUL 2010	11	15	18	15	0	59	9.83
<input type="checkbox"/>	3. Structure and linear viscoelasticity of flexible polymer solutions: comparison of polyelectrolyte and neutral polymer solutions By: Colby, Ralph H. Conference: Gennes Discussion Conference on From Reputation to Glossy Materials - Gennes Pioneering Work in Rheology and Recent Developments Location: Chamonix, FRANCE Date: FEB 01-05, 2009 Sponsor(s): French Grp Rheol; European Soc Rheol RHEOLOGICA ACTA Volume: 49 Issue: 5 Special Issue: SI Pages: 425-442 Published: MAY 2010	7	11	11	21	4	56	9.33
<input type="checkbox"/>	4. Large amplitude oscillatory shear of pseudoplastic and elastoviscoplastic materials By: Ewoldt, Randy H.; Winter, Peter; Maxey, Jason; et al. RHEOLOGICA ACTA Volume: 49 Issue: 2 Pages: 191-212 Published: FEB 2010	2	9	11	12	4	41	6.83
<input type="checkbox"/>	5. Shear rheology of carbon nanotube suspensions By: Hobbie, Erik K. RHEOLOGICA ACTA Volume: 49 Issue: 4 Pages: 323-334 Published: APR 2010	7	7	8	9	2	34	5.67
<input type="checkbox"/>	6. Differences between stress and strain control in the non-linear behavior of complex fluids By: Laeuger, Joerg; Stettin, Heiko RHEOLOGICA ACTA Volume: 49 Issue: 9 Pages: 909-930 Published: SEP 2010	5	7	11	6	1	31	5.17

Specials

- Review articles
- Weissenberg award lecture paper
- Thematic issue -Prof. S. Guido (guest editor)
- Early career Issue

“Early Career“ Issue(s)

[Issue 3 – March 2013](#)

Part 1: Special early career issue: Trends and progress in rheology

[Issue 5 – May 2013](#)

Part 2: Special early career issue: Trends and progress in rheology

[Issue 12, December 2014](#)

Part 3: Special early career issue: Trends and progress in rheology

S. Lerouge

S. Manneville

P. Underhill

A. Ardekani

Ju Min Kim

F. Snijkers

E. Koos

Renewal Editorial Board

Prof. Christian Clasen KU Leuven (Belgium, EU)

Prof. Eric Furst University of Delaware (Delaware, USA)

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Prof. Mike Solomon, University of Michigan (Michigan, USA)

Prof. Ahn, Kyung Hyun Seoul National University (Korea, Asia-Pac)

Prof. Evelyne Van Ruymbeke, UC Louvain (Belgium, EU)

Prof. Juan de Vicente, University of Granada (Spain, EU)

Rheologica Acta Publication award

- Procedure : editors select 10 papers / last 3 yrs
- 3 EB members constitute a committee
- They decided (D.Vlassopoulos, G.McKinley, Ph Coussot)
- The committee will be changed every year
- Editors and committee members are not eligible
- Sponsored by Anton Paar in 2015.



Questions?





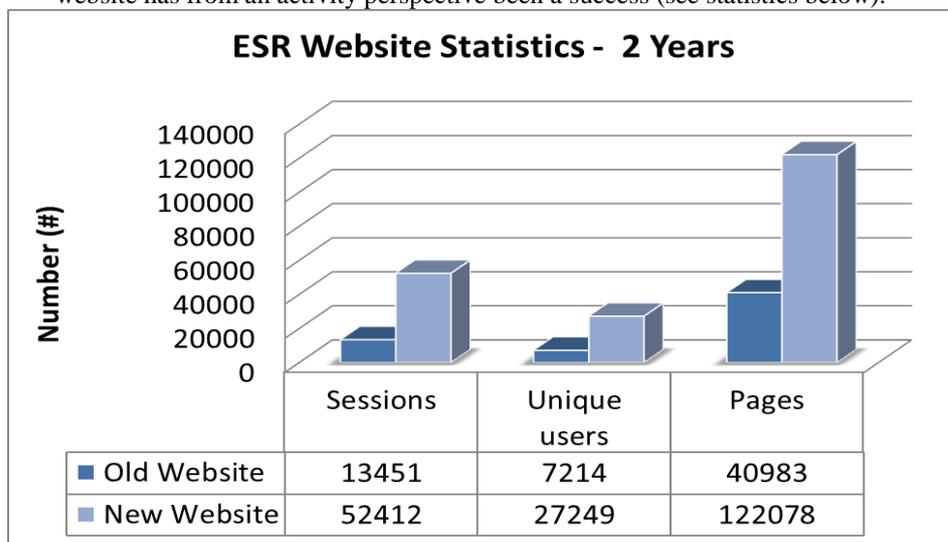
REPORT FROM THE WEBMASTER

FOR THE EXECUTIVE COUNCIL MEETING ON APRIL 15, 2015

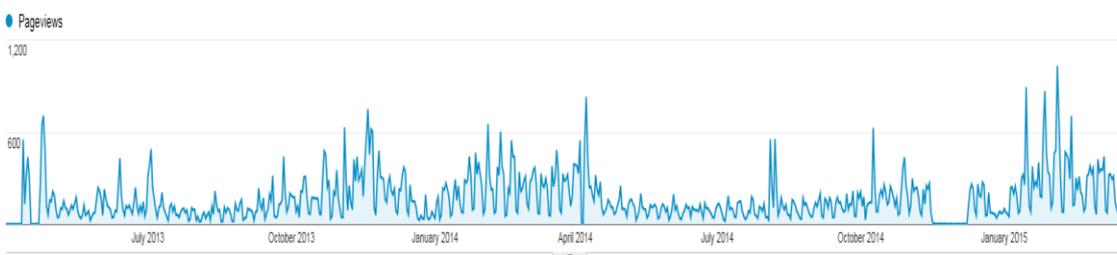
BY JOHAN WIKLUND
ESR WEBMASTER

1 ESR Website Statistics

- The activity on the ESR (and NRS) website has increased significantly in 2014 and the new website has from an activity perspective been a success (see statistics below).



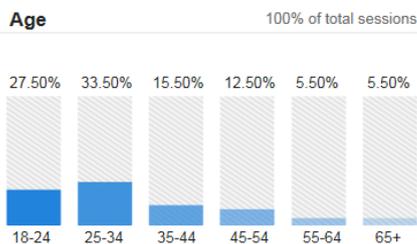
- The maximum capacity of the server was reached in October 2014 due to the increased traffic on the website. As a consequence of the increased traffic, the rheology-esr.com and sub-domains were upgraded and transferred to a premium account/server at the Oderland web hotel in November 2014.





- **Countries:** France, Germany, UK, United States, Sweden, India, Netherlands, Greece, Italy, Brazil, Switzerland.
- **Browser:** Firefox, Chrome, Internet Explorer, Safari, Opera, Android.
- **Operating System:** Windows, Apple, Linux, iOS, Android.
- **Mobile Operating System:** IOS, Android, Windows Phone, Windows, Blackberry, Samsung.
- **Screen Resolution:** 768x1024, 320x480, 320x568, 360x640, 1366x768, 720x1080, 1280x800

Most visited web pages



- ESR homepage / News
- AERC2014 Karlsruhe
- AERC2015 Nantes
- NRC2014 Iceland
- Rheologica Acta and Applied Rheology
- Events
- Conferences-Seminars

2 ESR Website Security

There have been numerous web security issues in 2014 and 2015; several of them are related to hacker attacks from outside and the increased traffic on the website, which is becoming a serious threat to the ESR web community. The WordPress platform must be patched continuously to minimize the risk and effect of hacker attacks.

2014

- One Innovation installed a number of security systems when the new website was published online in April 2013. The ESR website did not have any security issues from its introduction in April 2013 to July 2014.
- In September and October 2014, the ESR website was subjected to several minor hacker attacks and the purpose of the intruder was to introduce small harmless “injects” into the code. Several plug-ins were disabled and this affected the administration of the site. The ESR website was restored from a backup dated 2014-08-14 and improved security features were installed.
- The website was down temporarily on two occasions in 2014. The first time the website was down temporarily for a few hours due to a scheduled transfer of the web hotel subscription (April 2014). The second time the website was down temporarily for a few hours due to a scheduled upgrade of the account/server (November).

2015

- In end of December 2014 and early January 2015, the ESR website was again subjected a hacker attack and a script was inserted and executed and later traced back to a Russian IP address. Several plug-ins were disabled and this affected the administration of the site.
- One Innovation have deleted the actual script-files and concluded that hackers used a known, reported and later fixed security bug. This incident shows that it is essential to have the website patched and upgraded continuously to avoid future attacks.
- The hackers managed to delete an important system file “.htaccess-file” three times in March 2015. The file was first deleted on the 23:rd of March, 22.10. It was then once again deleted on the 26:th of March 22.40 and a third time on the 29:th of March 23.41.
- The ESR website was restored from a backup dated 2014-12-22 but One Innovation could not retrieve information after this date and it had to be manually posted again on the website.

3 ESR Website Functionality & Upgrades

- The company One Innovation had several problems implementing the new Abstract Handling and Payment system and the Abstract Handling system is still not working.
- The testing of the Abstract handling & payment system was initiated well before the next AERC 2015 in Nantes. However, due to initial problems and unsolved bugs the organizers decided to use an alternative payment system and the SoR Abstract Handling system for the Nantes conference, see paragraph 4 below.
- The payment system has now been tested and is confirmed to be working. However, one remaining payment issue is being sorted out by One Innovation regarding NRS+ESR dual membership renewals.
- The membership handling system (similar the NRS system) is not yet fully functioning and its implementation by One Innovation has been delayed due to website security issues and bugs.

4 ESR Website Issues & Administration

- The new ESR website is based on the WordPress system and has been developed by the company One Innovation AB, Stockholm, Sweden. The ESR community is still highly dependent on One Innovation to give support and for administration of the core components of the website.
- One Innovation has not been able to solve and fix the bugs in an acceptable time frame. The current support arrangement makes it hard to follow up on bugs and to track changes.
- The lack of support, bugs and hacker attacks from outside caused major problems for the organizers of AERC2015 in Nantes and they had to, as a temporary solution, quickly design a new web page http://www.legfr.fr/AERC_2015 hosted on their own server in order to be able to publish news and updates about the conference.
- **Johan Wiklund and Mats Stading have had daily work on web issues and it is not possible or realistic to continue to administer the ESR website with the current workload and level of support from One Innovation.**
- The conclusion is that the support and assistance from One Innovation is not at an acceptable level for the ESR and an alternative solution/company must be considered.

5 Strategies & Action Plan

The ESR has paid a substantial amount of money to One Innovation for the production and support of the website and it was said to be fully functional as from 6 August 2012. The website is still not fully functional according to specification. The following actions have therefore been considered/proposed:

Strategy 1: Continue with One Innovation

- A letter to One Innovation has been drafted, with the assistance from a legal counsel. In this letter we request that One Innovation free of charge make sure that the website is fully functioning according to the specifications before a specific date. If the website is not fully functional by a fixed date we will terminate our business with them and request that they immediately send any information and authorization regarding the website needed for making the website fully functional to us so that we may take our business elsewhere.
- It is difficult to find an alternative company that can and are willing to take over the responsibility and administer the ESR website designed by another company.
- **A new Official Webmaster should be appointed that can spend a significant amount of time on web issues and administrating the ESR website. The appointed webmaster needs to have good WordPress administration skills.**

Strategy 2: Design a new improved website

- An alternative web-support company Grafi Technology AB has now examined the ESR website and specifications and found some problems with the WordPress platform. As a result they do not want to take over the responsibility and administration of the ESR website and recommend that the critical parts of the website is re-built using .Net technology.
- The total cost for updating the core components / building a new website is 14-18 000 EUR.

6 ESR Newsletters

- The ESR newsletter module with drag-n-drop functionality is working well.

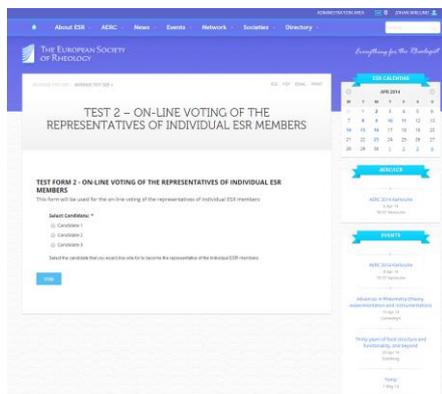
7 Journals

- Access to the on-line version of Rheologica Acta was implemented in January 2014.
- Access to the on-line version of Applied Rheology was implemented in April 2014.



8 Web vote

- An on-line Election of Representatives of Individual Members in the ESR Committee for period of office 2014-2017 was made using a new tool on the ESR website. In total, 412 votes were received.



9 Interest Groups and Moderators

- It is important to inform the Moderators (see table below) about their roles and duties.
- The Interest Groups now has individual Discussion Forums. These forums should be merged into a single forum entitled "General".



Interest groups & Moderators

Name	Moderator
Reinhardt Kotze Johan Wiklund	Applied Rheology
Jan Engmann	Biopolymer and Food Rheology
Michelangel Delgado	Complex fluids and flows
Elias Cueto Victor Rolon	Constitutive and computational modelling
Norbert Willenbacher	Dispersion rheology
Peter Fischer	Interfacial, Emulsion and Foam Rheology, Micro-rheology and Microfluidics
Vitor Barroso	Polymer Melt and Solution Rheology
Igor Emri	Rheology of solids
Christian Claesen	Rheometry
...	...

Additional

Name	Moderator
Bill Frith	BSR
Søren Vinter Sogaard	NRS Forum
Dingenouts, Nico (ITCP)	AERC 2014 organiser



“Industrial rheology” and the AERC

Jan Engmann (Nestlé Research)

Niall Young (DuPont Nutrition & Health)

Isabelle Henaut (IFP – New Energy)

Vitor Barroso (Borouge Innovation)

Rheology: an applied science from its early beginnings



A Modified Plastometer for Industrial Use

D. V. Gregory, G. M. Rassweiler and K. C. Lampert
J. Rheol. 1, 30 (1929); <http://dx.doi.org/10.1122/1.2116291>

[PREVIOUS ARTICLE](#) | [TABLE OF CONTENTS](#) | [NEXT ARTICLE](#)

[Abstract](#) | [Full Text](#) | [References \(0\)](#) | [Cited By \(2\)](#) | [Data & Media](#) | [Metrics](#) | [Related](#)

At the present time in the paint, varnish, and lacquer industry there are a number of different methods for determining the viscosity, or as the paint man expresses it "the consistency" of a paint, varnish, or lacquer. It is difficult, and in some cases impossible, to obtain a correlation between these methods, which means that practically each type of product in this industry has its empirical method for measuring consistency. It would be highly desirable if one method and apparatus could be used throughout the industry so that intercomparisons could be made between all types of products. This paper is a description of an attempt to produce such an instrument which in addition to being universal would be correct in theory, would have the speed necessary for industrial use, and would require only a small amount of material.

[Journal of Physical Chemistry](#)
Volume 39, Issue 1, 1935, Pages 213-219

The thixotropy of heather honey (Article)

[Scott Blair, G.W.](#)

Department of Physics, Rothamsted Experimental Station, Harpenden, United Kingdom

Abstract

Experiments are described on the behavior of heather honey under shearing, both in its undisturbed ("gel") and stirred ("sol") forms. In both cases, the viscosity increased at low stresses, but in neither case was there found any sharp elastic limit (yield value). The sol form showed (considering its very high viscosity) only a very small deviation from truly fluid behavior. A simple viscometric test is described to characterize honeys having thixotropic properties. This test should prove of use in deciding whether excess water in a honey is caused by unripeness, or is natural, owing to its heather origin.

Rheologica Acta
May 1958, Volume 1, Issue 1, pp 28-32

Die Bewegung des Schachtkörpers in der Tonsuspension beim Schachtbohrverfahren

P. G. Meerman

Summary

The *Hanigmann-de Vooy's* process of shaftmaking consists of drilling a hole, using the rotary drilling technique with a drilling mud of density 1.1 to 1.2, and sinking the shaft body in it. During this latter stage of the process the rheological properties of the drilling mud are very important. The mobility of the shaft body is a function of yield stress especially: it is shown that yield stresses larger than a few dynes per cm^2 are intolerable.



Problems and solutions: two different languages?

- Typical language in which rheological **problems** are stated (example)

« I need to select the right pump to pump this new building material which contains a new type of filler. »

- Typical language in which rheological **solutions** are phrased (example)

« The nonmonotonic dependency of the relaxation frequency leads to a maximum of the relaxation frequency at a volume concentration around 0.133. It can no longer be modeled by Peclet frequencies, since the classical Peclet frequencies depend only on a single concentration dependent physical quantity, viz., the suspension viscosity. A modified Peclet frequency depending on the suspension viscosity and the average surface-to-surface distance between the fillers as a structural, concentration dependent length scale allows for an accurate description of the Brownian relaxation for all concentrations. »

Real language differences (English + 18 other languages in the current societies making up the ESR) **add to communication challenge.**

Are there still many « industrial rheologists »?

- Rheology is not considered a « core technology » (or core science) in most industrial R&D organisations.
- Related areas: structure design, materials performance, delivery systems, formulation science, process design ...

Many other conferences are covering these topics more explicitly than the AERC.

- In industrial R&D organisations, rheology is mostly seen as a tool (and primarily as an experimental tool).
- BUT: Rheological calculations & measures help process and product developers and engineers to solve real problems (including the identification of innovative ideas).

Specific statements and expectations from our « survey »

- « More upstream IP protection blocks open exchange. »
- « Many industries/companies are decreasing R&D intensity. »
- « Is rheology still attractive enough as a joint topic of interest? Would 'soft matter' not be a better topic?»
- « The AERC is more about scientific excellence than about science enabling solutions in industries. »
- « Poor 'storytelling' in many presentations (academic and industrial) leads to a communication gap. »
- « Joint interests can often be dispersed between multiple sessions. »
- « The industrial session @ AERC is a 'ghetto' for industrialists ! »

Key benefits of attending AERC :

- Meet new collaborators and reinforce existing contacts
- Build and develop personal network in an efficient way
- Identify new tools to solve problems
- Learn about new effects not yet commercially exploited: generate new ideas

Suggestions to the committee

- **Discussion sessions** (led by expert panels) for areas of joint interest between academic and industrial rheology
- Well-equipped « **discussion booths** » in meeting areas. (sign-up could be requested)
- Review **number and themes of parallel sessions** regarding joint interests, bring together different perspectives (academic, industrial) for specific types of material (e.g. foams, polymer solutions)
- « **Applications session** » throughout the meeting (focused on solutions, innovations, whether they come from industry or not).
- **Coaching: how to communicate mathematical topics** effectively
- Some possible « **frontier topics** » for industry:
 - High throughput and automation
 - New manufacturing processes
 - Psychophysics / psychorheology
 - Biomimicking

