### Minutes of the 69<sup>th</sup> Meeting of the Aeroballistic Range Association

#### Bath, England 7 – 12 October 2018

**Summary**: The 69<sup>th</sup> Aeroballistic Range Association (ARA) Meeting is held in the Bailbrook Hotel in Bath, England and is hosted by Hadland Imaging-MS Instruments (HL-MSI) and Wiltshire Ballistics. Paul Everington, from MSI, is the conference chair and welcomes 54 attendees. These are 42 representatives (from 30 organizations), one fellow, 2 awarded students, 3 guests and 12 exhibitors (coming from six exhibiting companies). Paul Everington opens the event and presents the conference program. Robin Putzar welcomes and thanks all the members, especially the fellows.

The 69<sup>th</sup> ARA meeting consists of 12 sessions with 38 presentations:

- 34 technical presentations, including three student presentations,
- six exhibitor presentations,
- and one next meeting presentation.

The meeting includes a technical visit of Wiltshire Ballistics, in Devizes, UK.

The awarded student presentations were given by Jean-Eloi Franzkowiak (CEA) and Christopher Johnson (Marquette University).

#### Regular Business Meeting on Wednesday 10 October 2018, 17:10 to 18:00

**Call to Order**: Chairman Robin Putzar opens the business meeting with the presentation of the agenda. The business meeting agenda is attached in appendix A.

**Minutes of the 68<sup>th</sup> ARA Meeting**: The minutes including attachments were posted on the website, and all members were informed via e-mail on 5 October 2018. The Secretary David Cendón reads the summary of the minutes of the previous 68<sup>th</sup> meeting and asks for comments or corrections. No comments are made from the members. The minutes are approved.

**Treasurer's Report**: The Treasurer, Mr. Brad Davis, presents his report on the account. At the end of 2017 meeting, the balance of the account was \$36,192.29. Since then, incomes have risen to \$9,286.73 due to the devolution of \$5000 fronted to NPS for the organization of the meeting, plus 4,286.73 provided also by NPS due to the benefits after the meeting. During this year, the ARA has faced also payments for different concepts, such as host gifts (340\$), student paper award winners (6045\$) plus an advance fronted to MS Instruments for the organization of the 69th meeting (1045\$).

All details are given in the treasurer's report which is attached in appendix B.

**Audit report**: The accounts of the treasurer were reviewed and controlled by Kevin S. Vandersall, William D. Reinhardt and Leslie A. Yates, before the meeting. They confirm that the treasury report is accurate. Both, the treasurer's report and the audit report are approved by the ARA delegates. The Audit Committee Report is in appendix C.

**Membership Report**: David A. Cendón gives a short presentation on the current membership status. Currently the ARA consists of 46 member organizations.

This year, no applications for new membership have been received.

During the membership presentation, it became evident the decreasing number of delegates attending the meetings during the last years. For this reason, a short discussion was opened about how to stop such decreasing trend. Don Grosch suggests to put in copy of the warning letters to all

other ARA delegates: sometimes ARA delegates might be unable to assist the meetings due to personal reasons (retirement, illness...etc) and this causes a 'disconnection' between the organization and the ARA. Putting in copy of the warning letter to all ARA members may help to gather additional information about the institution receiving the warning letter and the reasons behind. Paul Everington offers himself to send an e-mail to all attendees for their reasons to join the meeting: this will provide additional information about the delegates' interests and how the meetings can be improved in order to be more attractive to the delegates. The membership report is attached as appendix D.

**Educational Committee**: The Educational Committee Chairman Dr. Kevin Vandersall reports that five applications for the student award were received this year. Due to the high interest and the high quality of the papers received, the executive committee decided to grant three student awards this year, although one of them was unable to join the meeting and therefore refused the award. The award winners were Christopher Johnson (Marquette University, USA) and Jean-Eloi Franzkowiak (CEA France). This year the educational committee was formed by Jean Marc Chevalier, Jim Trolinger and Kevin Vandersall. The assembly thanks Kevin Vandersall and the educational committee for their work reviewing the abstracts and proposing award winners.

In 2017, four applications were received and reviewed.

In 2016, four applications were received and reviewed.

In 2015, eight applications were received and reviewed.

In 2014, three applicants were received (all within U.S.) and reviewed.

**Web Site Committee Report**: The website is online and running. After Robin Putzar's enquire for questions, Jim Trolinger asks for the possibility of an open area in the website providing further details about the ARA association. In this sense, Robin Putzar shows his availability to upload any information sent to him of interest to be shown in the website. Robin Putzar is thanked for the quality of his work.

**Invited Exhibitor Committee Report**: Brad Davis provides an overview of this year's exhibitors. There are six exhibiting companies besides MSI (the organizers of the meeting), five of them already joined previous meetings and there is a new exhibitor this year. The list of exhibitors is: AMOtronics, Hadland, HL-MSI, ix-Cameras, MSI, Specialized Imaging and Telops. MSI is thanked for arranging such a successful meeting.

There was one suggestion made by exhibitors, which is to allocate some time for real time demonstrations during the meetings. However, this would require also for additional room to perform such demonstrations. This suggestion could be considered for upcoming meetings.

#### New business:

The chairman Robin Putzar informs that no new business came up during the last year and therefore ask for any other new business to the delegates. Raymond Gamache raises a discussion about the usual dates for the meeting (between September and October): for USA delegates, October is a difficult month due to the closure of the fiscal year in USA. For this reason, he asks for the possibility of advancing future meeting as much as possible, trying to set them in the month of September. Conversely, the meetings could be also moved to the end of October, but trying always to avoid the second and third weeks of October as much as possible. It is discussed how such change could be stated in the statutes of the society. Since the chairman has the power to approve or not the date of the meeting proposed by the organizers, it is suggested to use this procedure in order to try to avoid the weeks of October (second and third) as much as possible.

**Next ARA Meeting**: The next ARA meeting will be hosted by Marquette University. John Borg, the coordinator of the 2019 meeting, gives a short presentation with some details about the meeting: the venue could be the Potawatomi Hotel, the Hilton Hotel or even the University campus; the date

initially proposed is 8<sup>th</sup> October 2019, although looking at some other conferences dates as well as the concerns raised by Raymond Gamache in the previous point, it could be moved to August. The presentation is attached as appendix E.

With no more business to discuss, the meeting is declared closed at 17:59 hrs, thanking again the organizers of the ongoing meeting.

David A. Cendón

Secretary of the Aeroballistic Range Association

### Committee Members as of after the Meeting 2017 in Monterey, California, USA.

#### **Executive Committee**

The Executive Committee has general supervision of the affairs of the ARA between business meetings.

R. PutzarK. VandersallD. CendonB. DavisD. GroschChairmanChairmanChairmanChairman

#### **Education Committee**

This committee is responsible for soliciting and selecting student papers for presentation at the ARA meetings in accordance with the "ARA Student Paper Guidelines".

K. Vandersall Chairman W. Maines J. Trolinger C. Neel J.-M. Chevalier

#### Audit Committee

This committee performs an annual audit of the Treasurer's records.

- K. Vandersall Chairman
- R. Putzar
- D. Grosch
- W. Reinhart

#### **Membership Committee**

This committee considers applications from potential members and reviews the status of current members to ensure compliance with eligibility requirements.

- D. Cendon Chairman
- K. Rodriguez
- J. Spray
- H. Tanno
- W. Reinhart

#### Nominating Committee

This committee will prepare a recommended slate of officer candidates as needed for regular elections or to fill vacated offices.

D. Grosch Chairman

#### Exhibitor Committee (appointed special committee)

This committee is an appointed special committee. Its task is to communicate with the exhibitors during meetings and ensure the arrangement at meetings satisfies them.

B. Davis Chairman

- D. Grosch
- W. Reinhart

#### Website Committee (appointed special committee)

Chairman

This committee is an appointed special committee. Its task is to maintain the website.

R. Putzar



## Aeroballistic Range Association Business Meeting Agenda $69^{\text{th}}$ ARA Meeting, 10 October 2018

Opening	Robin Putzar (ARA Chairman)
Minutes of $68^{\rm th}$ Meeting	David A. Cendón Franco (ARA Secretary)
Treasurer's Report	Brad Davis (ARA Treasurer)
Audit Committee	Kevin Vandersall (ARA Chairman Elect) Brad Davis, Leslie Yates, Bill Reinhart
Membership Committee	David A. Cendón Franco (ARA Secretary) Karen Rodriguez, John Spray, Bill Reinhart
Educational Committee	Kevin Vandersall (Chair) Jean-Marc Chevalier, Jim Trolinger, Warren Maines, Kit Neel
ARA Web Site*	Robin Putzar (Chair) *Appointed Special Committee
Invited Exhibitors <sup>*</sup>	Brad Davis (Chair) Don Grosch, William Reinhart *Appointed Special Committee
New Business	Robin Putzar (ARA Chairman)
Next ARA Meeting	John Borg
Miscellaneous/Closing	Robin Putzar (ARA Chairman)

Treasurer's Report 69 <sup>th</sup> ARA Meeting, October 7-12, 2018 Treasurer: Brad Davis		
Balance reported at the 68th meeting (Oct 2017) (Taken from 68th ARA treasury report)	\$36,192.29	
Credits		
Deposit on 10/13/17, credit from 68th ARA outstanding balance	9286.73	
<u>Debits</u>		
Check #1038 to Bill Reinhart on 9/20/2017 (67th ARA Host Gifts)	(\$340.00)	
Check #1039 on 9/20/17 to Benoit Rougier (Student Paper Award Winner for 2017)	(\$1,500.00)	
Initially Check #1040 on 9/20/17 then voided to do bank transfer on 11/17/17 Bank Transfer Fee (11/17/17) (Student Paper Award Winner for 2017)	(\$1,500.00) (\$45.00)	
Check #1041 on 9/20/17 to Sandra Poeuf (Student Paper Award Winner for 2017)	(\$1,500.00)	
Check #1042 on 9/20/17 to Zherui Guo (Student Paper Award Winner for 2017)	(\$1,500.00)	
Bank Transfer to MS Instruments (Advance for 69th ARA Meeting in Bath, UK) Bank Transfer Fee (12/11/17)	(\$10,000.00) (\$45.00)	
Current Balance as of start of Meeting (10/3/18)	\$29,049.02	
Balance as of August 31, 2018\$29,049.02(Agrees with the August 31, 2018 Bank Statement)Note: Upcoming expected costs of 2 travel awards and host gifts at 68th ARA meeting		

# Audit Committee Report 69<sup>th</sup> ARA Meeting, Bath

Audit Committee Chair: Kevin Vandersall Audit Committee Members: Brad Davis, Leslie Yates, William Reinhart

The Treasurer's Report was submitted by Treasurer Brad Davis to Kevin Vandersall. All transaction listed on the report are accurate and have been authorized. The beginning balance plus/minus the transactions are mathematically accurate. The ending balance on this Treasurer's report agrees with the ending balance from the Bank of America Statement on August 31<sup>st</sup>, 2018. The Treasurer's report is approved.

## Membership status at October 2018

- 42 member organizations (5 termination letters + 1 new member from September 2017).
- No requests for new membership received from September 2017.
- XX members on warning status.
- YY termination letters (maybe MARSH?)



### Interest since Oct 2017

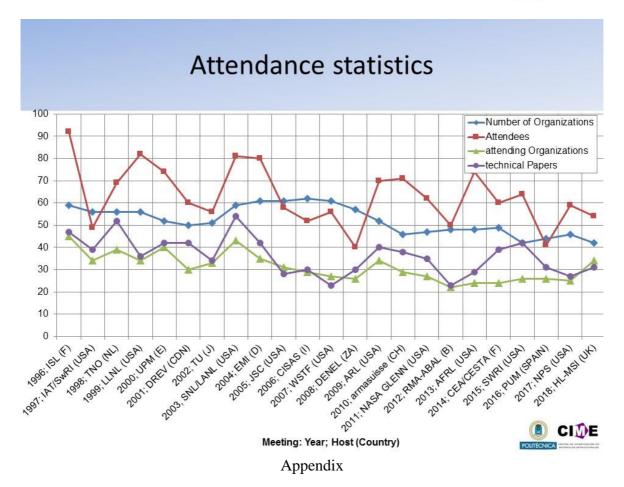
- RAFAEL, Nov 2017 (reaction after termination letter)
- Test facility at Sandia National Labs., March 2018 (already member).
- SAAB Dynamics AB, Sept 2018.
- Mach 85, March 2018.



## Changes in representatives since Oct 2017

- UC Davis: Dylan Spaulding
- TNO: Ed Van Riet retired -> H.H. (Boy) Kodde
- LANL: Rick Gustavsen retired -> John Lang





Appendix E : Next ARA meeting presentation (page 1 of 5)

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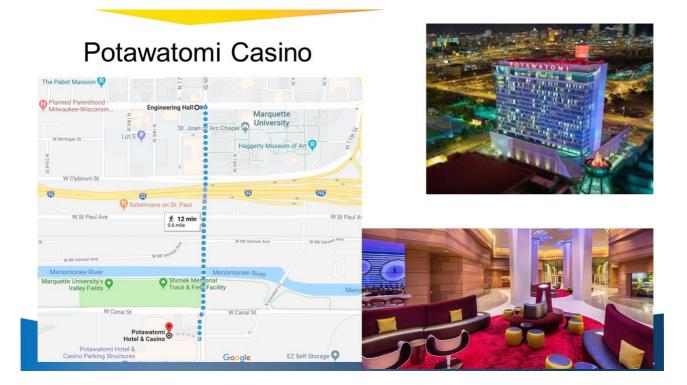
## Downtown Milwaukee



Appendix E : Next ARA meeting presentation (page 2 of 5)







OTH	IER MEETINGS 2019
MACH:	April 3-5, 2019, Annapolis MD
HVIS:	April 14-19, 2019, Destin, Florida
SEM:	June 3-6, 2019 Reno, NV
APS – SCCM:	June 16-21, 2019,Portland, OR
ARA:	August 4-10, Milwaukee, WI
DYMAT:	September 9-11, Stresa, Italy
US Fiscal Year:	September 30
ISB:	Nov 4-8, 2019, Hyderabad , India
Det. Symposium:	Not being held
	MARQUETTE BE THE UNIVERSITY DIFFERENCE.



### **MARQUETTE/APS-DCS**



Marquette

MARQUETTE BE THE UNIVERSITY DIFFERENCE.

**NUMBERS** 

Startup budget? Bank account? Head count?

