



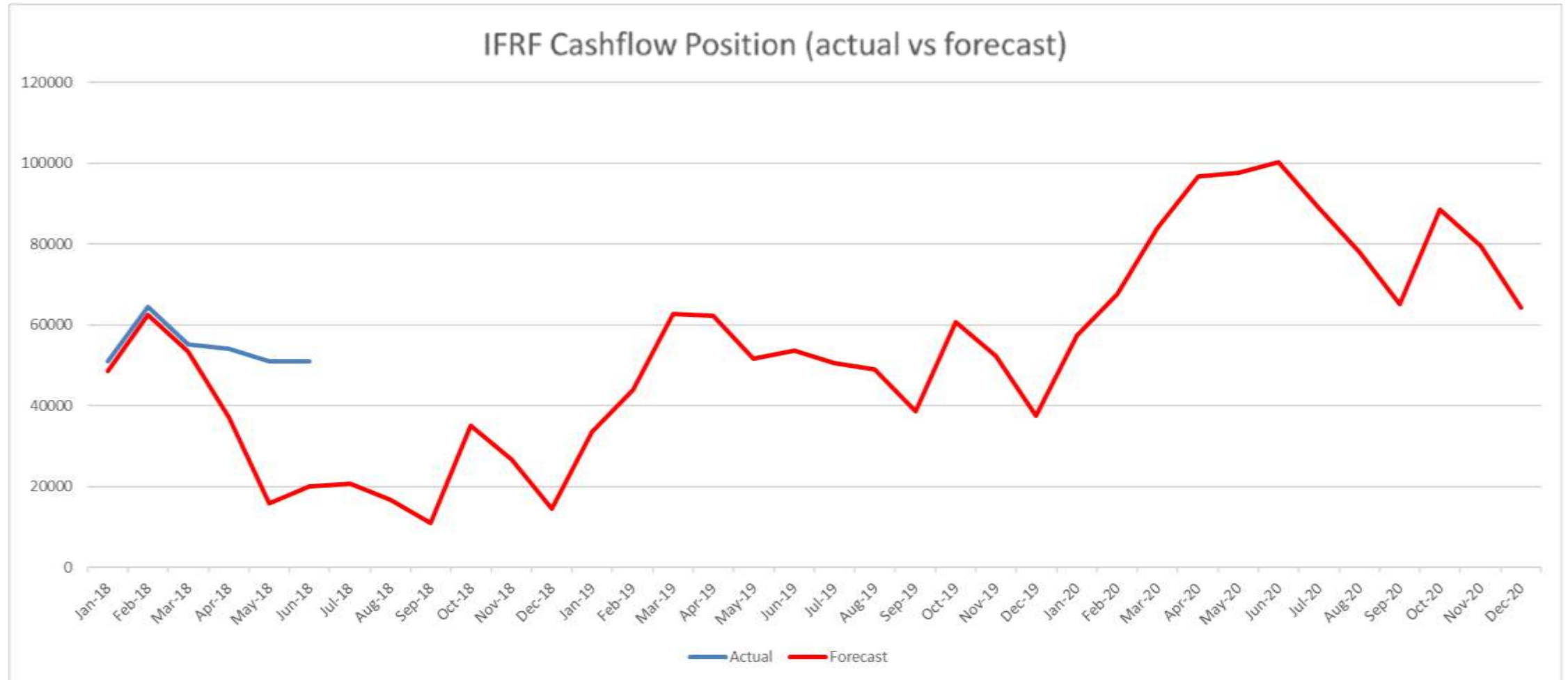
1. Finance
2. Membership
3. Communications
4. National Committee update
5. IFRF 2018 Conference
6. Future TOTeMs
7. Other meetings attended by IFRF
8. New website and CRM database
9. Marketing
10. Member and general enquiries

11. Industrial Combustion Journal
12. 70<sup>th</sup> anniversary
13. IFRF Ltd matters
14. Other activities





## IFRF QPR Q2: 1. Finance – forecast and financial plans (1/2)

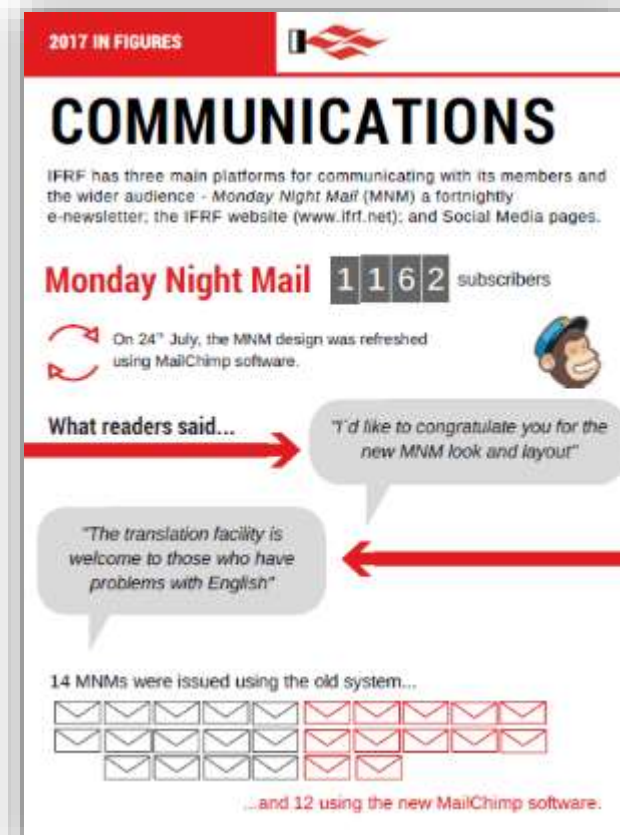


- IFRF 2018 conference profit (£20k) included
- BFRC, CI and CF 2018 membership still to come
- Assumption that TOTeM45 to break even



# IFRF QPR Q2: 1. Finance – Annual Report (2/2)

- Annual Report 2017 produced and approved by Council (May)
- Circulated to National Committees and members (June)





## IFRF QPR Q2: 2. Membership

127\* member organisations...



\*up 1 from previous quarter



...and 11\*\* individual members



\*\*up 1 from previous quarter

# IFRF QPR Q2: 3. Communications

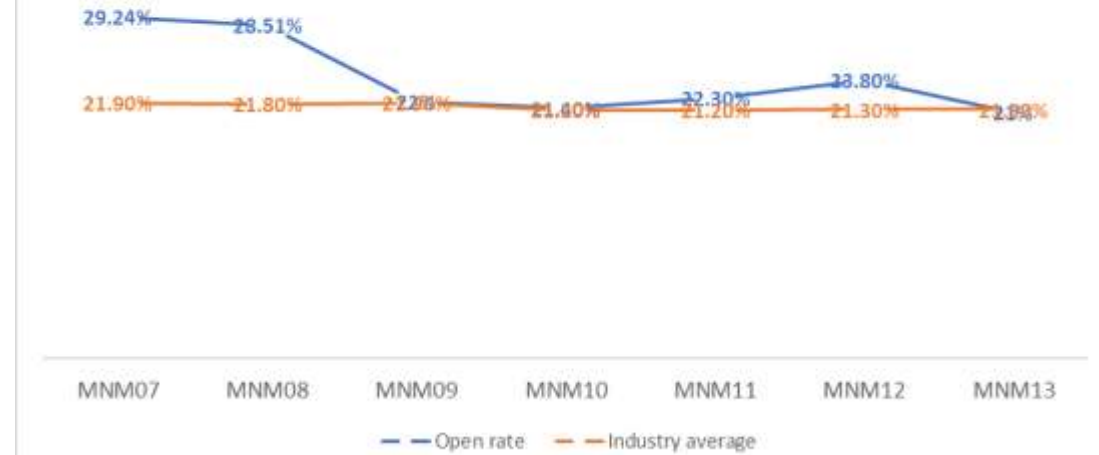
## MNM – Monday Night Mail (1/2)

7 MNMs published in Q2

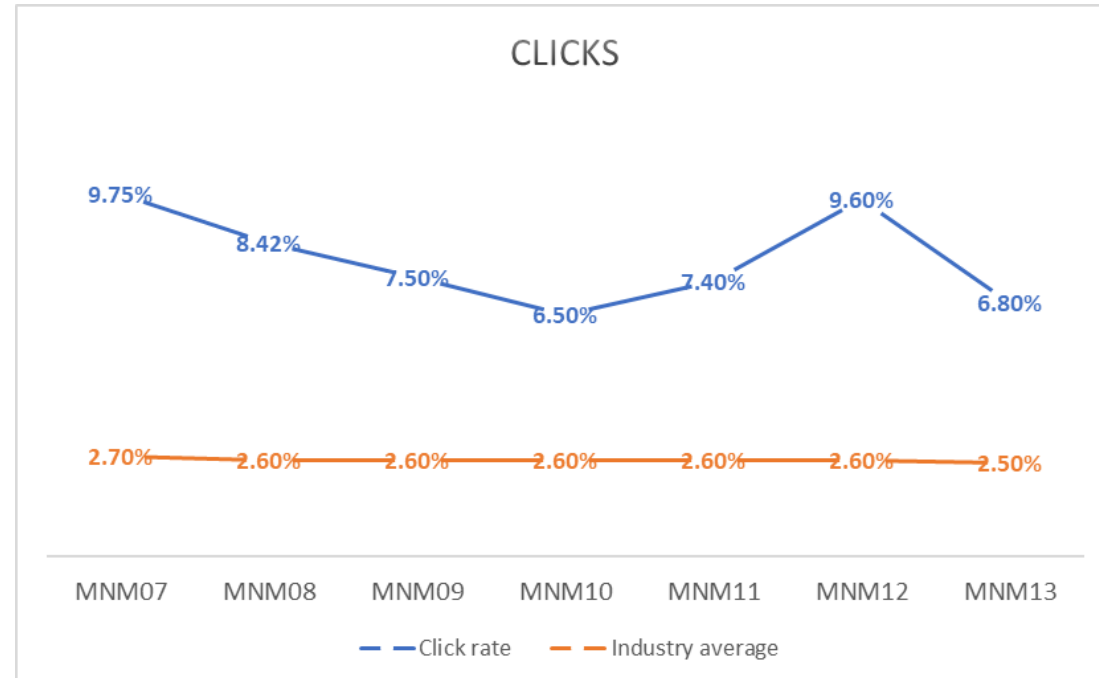
### SUCCESSFUL DELIVERIES



### OPENS



### CLICKS





## IFRF QPR Q2: 3. Communications



### MNM – Monday Night Mail (2/2)

Issue	1 <sup>st</sup> most read article	2 <sup>nd</sup> most read article	3 <sup>rd</sup> most read article
MNM07	IFRF2018 Book Tickets	Energy-from-Waste technologies – Advanced Thermal Treatment: Pyrolysis and Gasification	Jeff Rhine
MNM08	IFRF2018 Book Tickets	Reigniting the...mid 90s - mid 00s	ERA funds new technology to convert biomass into 'coal'
MNM09	New Finnish committee	A fast-changing future for energy – but what exactly is WEO 2017 telling us?	IFRF 2018 Eventbrite
MNM10	Reigniting the... 1990s	RJM - Back in the USA!	IFRF 2018 Eventbrite
MNM11	Wood burning in the balance – a lifecycle analysis of wood verses coal raises some interesting questions	IEA Global Energy & CO2 status report	An invitation to the 9th Finnish Flame Day
MNM12	IFRF 2018: Clean, safe and efficient industrial combustion	Pearls of wisdom to the next generation of combustion engineers	Fives looking for a Combustion Expert
MNM13	Reigniting the... mid-1980s to mid-1990s	#IFRFAt70: A word from President Macron	Dilemmas and decisions: how oil and gas firms are refocusing on the future

## Social media (1/3)

Apr 2018 • 30 days

### TWEET HIGHLIGHTS

**Top Tweet** earned 487 impressions

Statoil and DONG Energy are both proposing to change their names as they reposition themselves for a lower-carbon future - [bit.ly/2EExk8b](http://bit.ly/2EExk8b)

Tweets

55

Tweet impressions

8,161

Profile visits

163

Mentions

4

New followers

8

**Followers: 169**

May 2018 • 31 days

### TWEET HIGHLIGHTS

**Top Tweet** earned 1,114 impressions

This week's [#Combustion](#) [#Industry](#) News at - [bit.ly/2IixIFw](http://bit.ly/2IixIFw). Inc. [@EU\\_Commission](#)'s ETS revision, [@Allianz](#) coal insurance pullout, lobby group for [#CCSU](#), [#CCS](#) for [#bioethanol](#) production, Carbon [@xprize](#) finalists, [@windpower\\_m](#) + CO2 levels above 410ppm.  
[pic.twitter.com/nAKAq4UwCO](http://pic.twitter.com/nAKAq4UwCO)

Tweets

86

Tweet impressions

12.7K

Profile visits

600

Mentions

16

New followers

18

**Followers: 186**

Jun 2018 • 30 days

### TWEET HIGHLIGHTS

**Top Tweet** earned 3,290 impressions

Time for our panel discussion convened by Kurt Kraus [@HoneywellUOP](#) on the EC's Industrial Emissions Directive. [#IFRF2018](#)  
[pic.twitter.com/AM8d8YUZ38](http://pic.twitter.com/AM8d8YUZ38)

Tweets

31

Tweet impressions

10.2K

Profile visits

311

Mentions

3

New followers

9

**Followers: 195**



## Social media (2/3)

### IFRF LinkedIn Company Page

- |  |       |
|--|-------|
| • Number of followers at the end of Q2 | 181   |
| • Number of followers gained in Q2     | 14    |
| • Number of articles published in Q2   | 29    |
| • Number of impressions in Q2          | 3,328 |
| • Number of visitors to the page in Q2 | 86    |

#### Summary

- Steady growth in followers and impressions
- Sharing ~3-4 articles per week
- IFRF will continue to promote the linkage between the company page and the group

### IFRF LinkedIn Group

- |   |     |
|---|-----|
| • Number of group members at the end of Q2    | 570 |
| • Group membership variance since Q1          | +6  |
| • Total number of conversations started in Q2 | 24  |
| • Number of comments in Q2                    | 5   |
| • Number of likes in Q2                       | 19  |

#### Summary

- Increased engagement from group members as we increased the number of conversations started
- If Council members are on LinkedIn please post any updates or questions you have to the IFRF group



## Social media (3/3)

- IFRF YouTube Channel launched in June 2018
- 2 videos uploaded:
  - IFRF 2018 Conference (154 views)
  - French Flame General Assembly at TOTAL OLEUM in Dunkirk (2 views)
- 1 subscriber added in Q2
- Will continue to promote channel



The screenshot shows the IFRF YouTube channel page. At the top, the channel name "IFRF - International Flame Research Foundation" is displayed with a profile picture of the IFRF logo and "1 subscriber". Below this are navigation tabs: "HOME" (selected), "VIDEOS", "PLAYLISTS", and "CHANNELS". Under the "VIDEOS" tab, there are two video thumbnails. The first video is titled "IFRF French Committee June 2018 TOTAL OLEUM Dunkirk" with a duration of 1:25 and 2 views from 1 week ago. The second video is titled "IFRF 2018 Conference" with a duration of 5:25 and 154 views from 1 month ago.

IFRF - International Flame Research Foundation  
1 subscriber

HOME VIDEOS PLAYLISTS CHANNELS

Uploads PLAY ALL

**OLEUM**  
INNOVATIVE LEARNING SOLUTIONS FOR INDUSTRY  
1:25

IFRF French Committee June 2018 TOTAL OLEUM Dunkirk  
2 views • 1 week ago

**IFRF 2018 Conference**  
154 views • 1 month ago



## IFRF QPR Q2: 4. National Committees update

### AFRC

- 15 attendees at #IFRF2018
- Cabot Corp member request
- Symposium in September

### CI

- 6 attendees at #IFRF2018
- Next CI meeting to be held in September

### NVV

- 11 attendees at #IFRF2018

### BFRC

- 45 attendees at #IFRF2018
- Awaiting 2018 membership fees
- Kiln Flame Ltd member request

### DVV

- 7 attendees at #IFRF2018
- General meeting will be 15<sup>th</sup> November 2018

### SFRC

- 3 attendees at #IFRF2018

### CF

- 13 attendees at #IFRF2018
- General Assembly held in Dunkirk in June

### FFRC

- 3 attendees at #IFRF2018
- Finnish Flame Day in October

### AMG

- PS planning to visit China in July to encourage new members





## IFRF QPR Q2: 5. IFRF 2018 Conference (1/4)

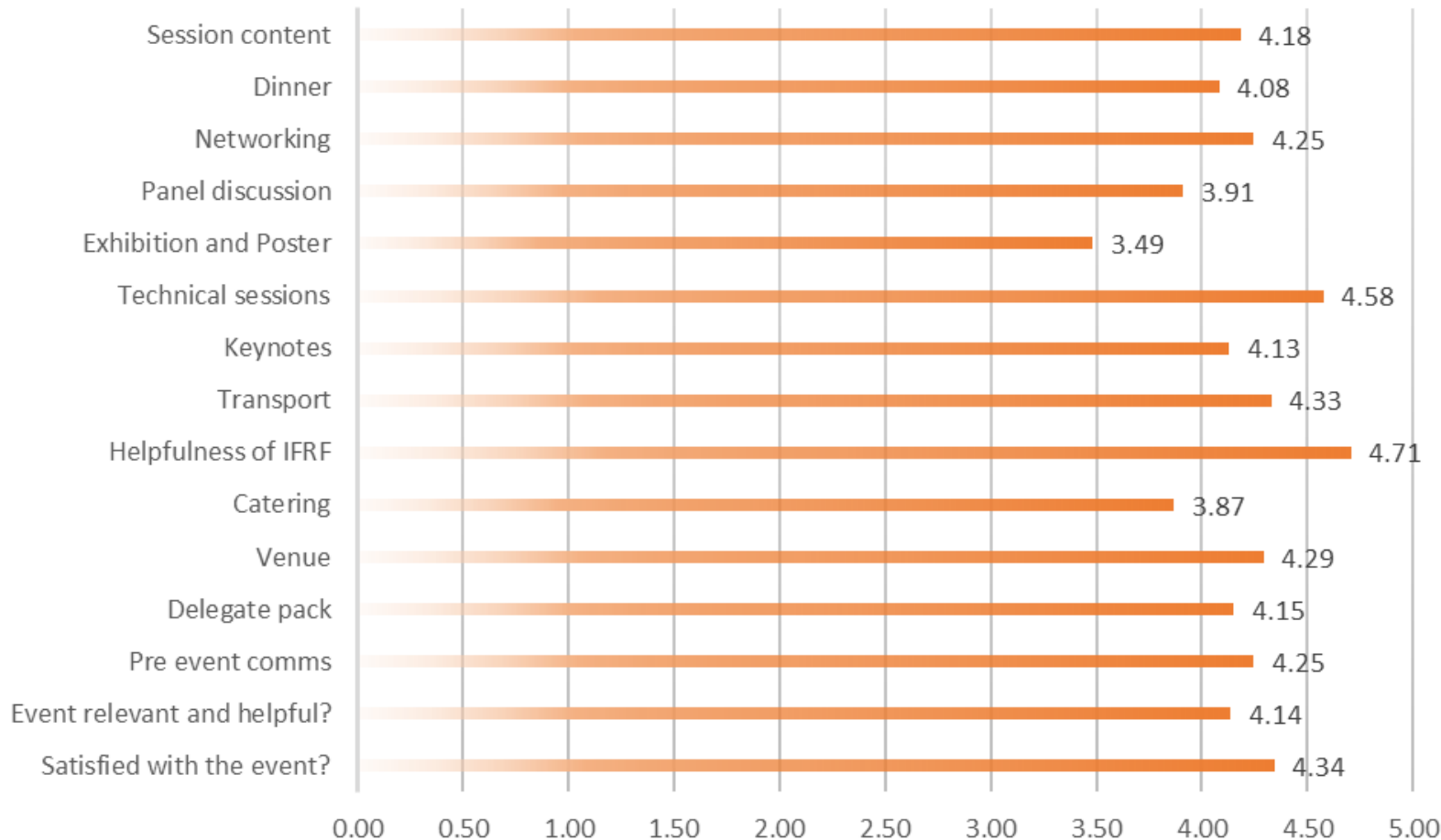




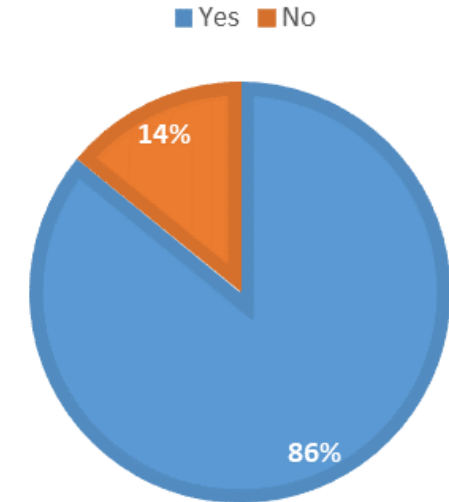
## IFRF QPR Q2: 5. IFRF 2018 Conference (2/4)

118 delegates from 15 countries attended; 62% of attendees submitted feedback forms

### OVERALL FEEDBACK ON EVENT



### DO YOU WISH TO RECEIVE INFORMATION ABOUT FUTURE IFRF EVENTS?



Key:  
5 = excellent  
1 = poor





## IFRF QPR Q2: 5. IFRF 2018 Conference (3/4)

What they said about the conference:

*“Always an excellent event, a must for sharing new technology and meeting key people”*

Nigel Palfreeman, Zeeco

*“Very interesting topics and high level of participants. Good distribution between industry and academia. This conference is a must.”*

Victor Cuervo, ArcelorMittal

*“Extremely interesting event as always. Great presentations and networking.”*

Luca Colzani, CO3 srl

*“Excellent conference - very well organised. Will definitely attend again.”*

James Champion, Kiln Flame Systems Ltd

*“It was well balanced between scientific and industrial aspect.”*

Seong-Ho Jin, University of Lincoln

*“Very good information and technical presentation with knowledge of future emission levels.”*

Raj Kerai, John Zink



## IFRF QPR Q2: 5. IFRF 2018 Conference (4/4)

### Expenditure

Category	Original Budget	Actual	Variance	Comments
Dinner	£ 8,000.00	£ 8127.20	-£ 127.20	Coffees ordered on the day
Marketing	£ 5,000.00	£ 3,382.82	£ 1,617.18	
Misc	£ 1,000.00	£ 473.38	£ 526.62	
Side events	£ 150.00	£ 47.90	£ 102.10	
Transport	£ 1,000.00	£ 1,000.00	£ -	
Venue	£ 9,500.00	£ 9,236.00	£ 264.00	
Total	£ 24,650.00	£ 22,267.30	£ 2,382.70	

### Income

Revenue stream	Amount
Sponsors (7 @ £3k each)	£ 21,000.00
Ticket revenue	£ 21,439.54
Total revenue	£ 42,439.54

### Income vs expenditure

	Amount
Total revenue	£ 42,439.54
Expenditure	£ 22,267.30
Profit / loss of event	£ 20,172.24



# IFRF QPR Q2: 6. Future TOTeMs (1/2)



**TOTeM**  
TOPIC ORIENTATED TECHNICAL MEETING



**#TOTeM45:**  
Gas turbines for future energy systems

3-4 • SEPTEMBER • 2018  
CARDIFF • UNITED KINGDOM

   #TOTeM45  
[bit.ly/TOTeM45](http://bit.ly/TOTeM45)



**TOTeM**  
TOPIC ORIENTATED TECHNICAL MEETING

**OUTLINE PROGRAMME**  
3-4 • SEPTEMBER • 2018  
CARDIFF • UNITED KINGDOM



**DAY ONE - MONDAY 3<sup>RD</sup> SEPTEMBER**

<b>SESSION 1: OPENING SESSION</b>	10:00 - 11:00
• Welcome and introduction - Mr Philip Sharman, IFRF, UK • Keynote - Prof Khawar Syed, GE, Switzerland	
<b>REFRESHMENT BREAK</b>	11:00 - 11:30
<b>SESSION 2: GTs FOR FLEXIBLE POWER (operational flexibility, fuels flexibility)</b>	11:30 - 13:00
• Prof Aimee Morgans, Imperial College London, UK • Mr Dave Abbott, Uniper, UK • Prof Yannis Hardalupas, Imperial College London, UK	
<b>NETWORKING LUNCH</b>	13:00 - 14:00
<b>SESSION 3: GTs FOR STORAGE-TO-POWER (power-to-gas, hydrogen, ammonia)</b>	14:00 - 15:30
• Dr Ing Peter Griebel, DLR, Germany • Dr Agustin Valera-Medina, Cardiff University, UK • Prof Rob Bastiaans, TU Eindhoven, the Netherlands	
<b>REFRESHMENT BREAK</b>	15:30 - 16:00
<b>SESSION 4: GTs FOR SAFE, DECARBONISED POWER (efficiency, EGR, carbon capture, safety)</b>	16:00 - 17:30
• Dr Mario Ditaranto, SINTEF Energy Research, Norway • Dr Karen Finney, University of Sheffield, UK • Mr Stuart Hawksworth, Health and Safety Executive, UK	
<b>WELSH BANQUET AT CARDIFF CASTLE</b>	19:30 - 21:00



**TOTeM**  
TOPIC ORIENTATED TECHNICAL MEETING

**OUTLINE PROGRAMME**  
3-4 • SEPTEMBER • 2018  
CARDIFF • UNITED KINGDOM



**DAY TWO - TUESDAY 4<sup>TH</sup> SEPTEMBER**

<b>SESSION 5: KEYNOTE SESSION</b>	8:30 - 9:30
• Re-welcome and re-cap - Prof Phil Bowen, GTRC, UK • Keynote - Dr Richard Marsh, Cardiff University, UK	
<b>SESSION 6: MANUFACTURING THE GTs OF TOMORROW (additive manufacturing, advanced materials)</b>	9:30 - 11:30
• Mr Andrew Jones, HIETA Technologies Ltd, UK • Dr Colin Copeland, University of Bath, UK • Prof John Oakey, Cranfield University, UK / ETN • Mr Paul Addison, Siemens/Materials Solutions Ltd (Invited)	
<b>REFRESHMENT BREAK</b>	11:30 - 11:45
<b>SESSION 7: ROUNDTABLE DISCUSSION</b>	11:45 - 13:00
<b>NETWORKING LUNCH</b>	13:00 - 13:30
<b>SITE VISITS TO:</b>	13:30 - 17:00
• GTRC, Port Talbot • and either Baglan Bay CCCT Power Station or Baglan Hydrogen Research & Demonstration Centre (tbc)	

   #TOTeM45  
[bit.ly/TOTeM45](http://bit.ly/TOTeM45)

- Programme outline published - All speakers except one confirmed
- Eventbrite registration now open
- Continuing to contact potential sponsors (industrial)



## IFRF QPR Q1: 6. Future TOTeMs (2/2)

### TOTeM 46?

Topic: Scaling of R&D rigs  
Year: 2019  
Host: Chalmers University?  
Location: Sweden  
Sponsors: TBC  
Other: Topic was generated from discussions at the Nordic Flame Days



### TOTeM 47?

Topic: API Sub-Committee on Heat Transfer Equipment (SCHTE) developing standards  
Year: 2019  
Host: AFRC?  
Location: USA  
Sponsors: TBC  
Other: Topic was generated from discussions at the AFRC 2017 Symposium; people keen for a TOTeM outside of Europe



### TOTeM 48?

Topic: API Sub-Committee on Heat Transfer Equipment (SCHTE) developing standards  
Year: 2019-2020  
Host: IFRF  
Location: Europe  
Sponsors: TBC  
Other: Complement of TOTeM47 on SCHTE inside Europe





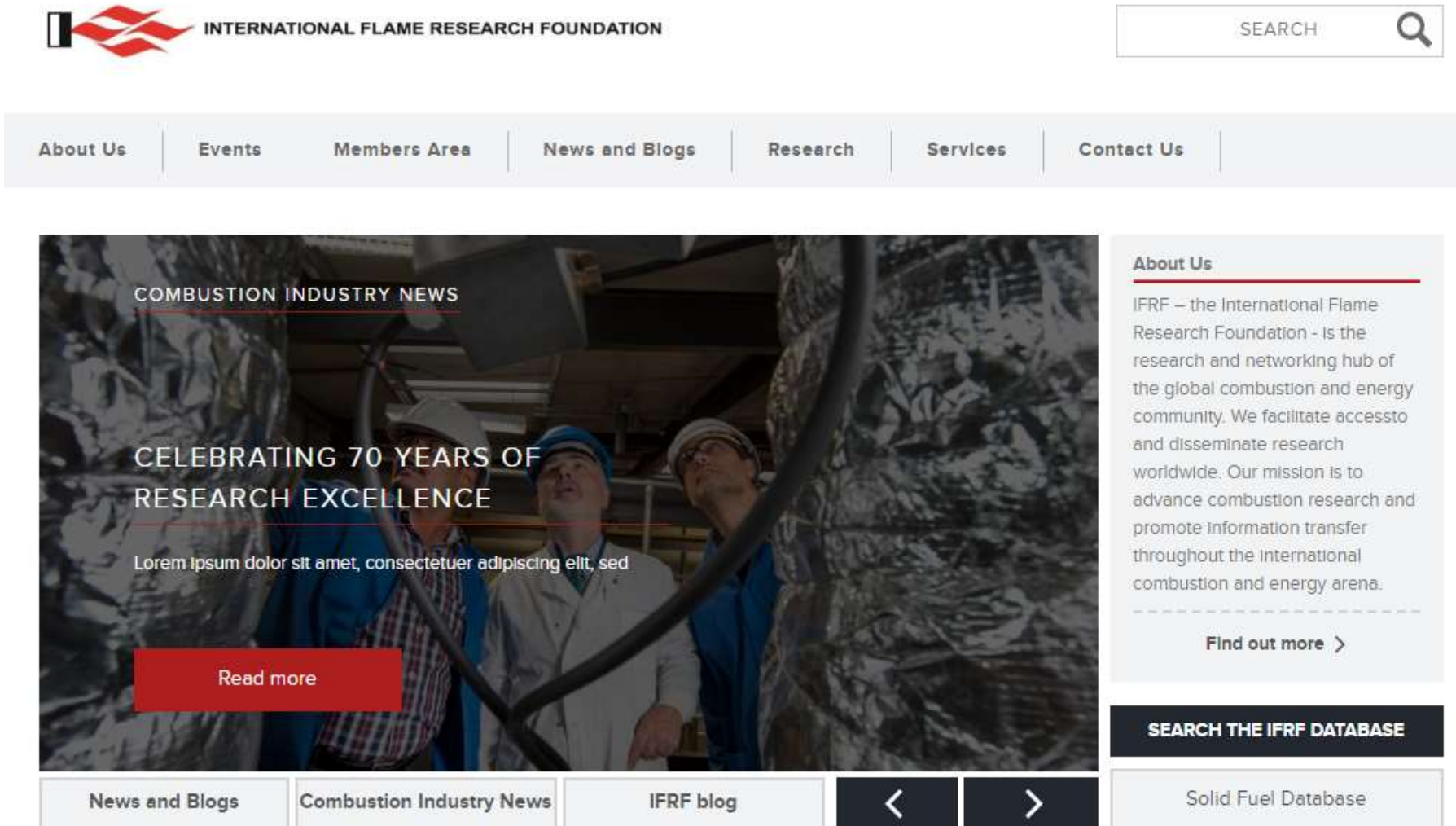


## IFRF QPR Q2: 7. Events/meetings attended by IFRF

- Combustion Institute (British Section) Conference, Manchester, UK
- GDPR training, Sheffield, UK
- Partnership meeting with IERE, Sheffield, UK
- CF General Assembly, Dunkirk, France
- ESP (website) – numerous design and development meetings, Sheffield, UK



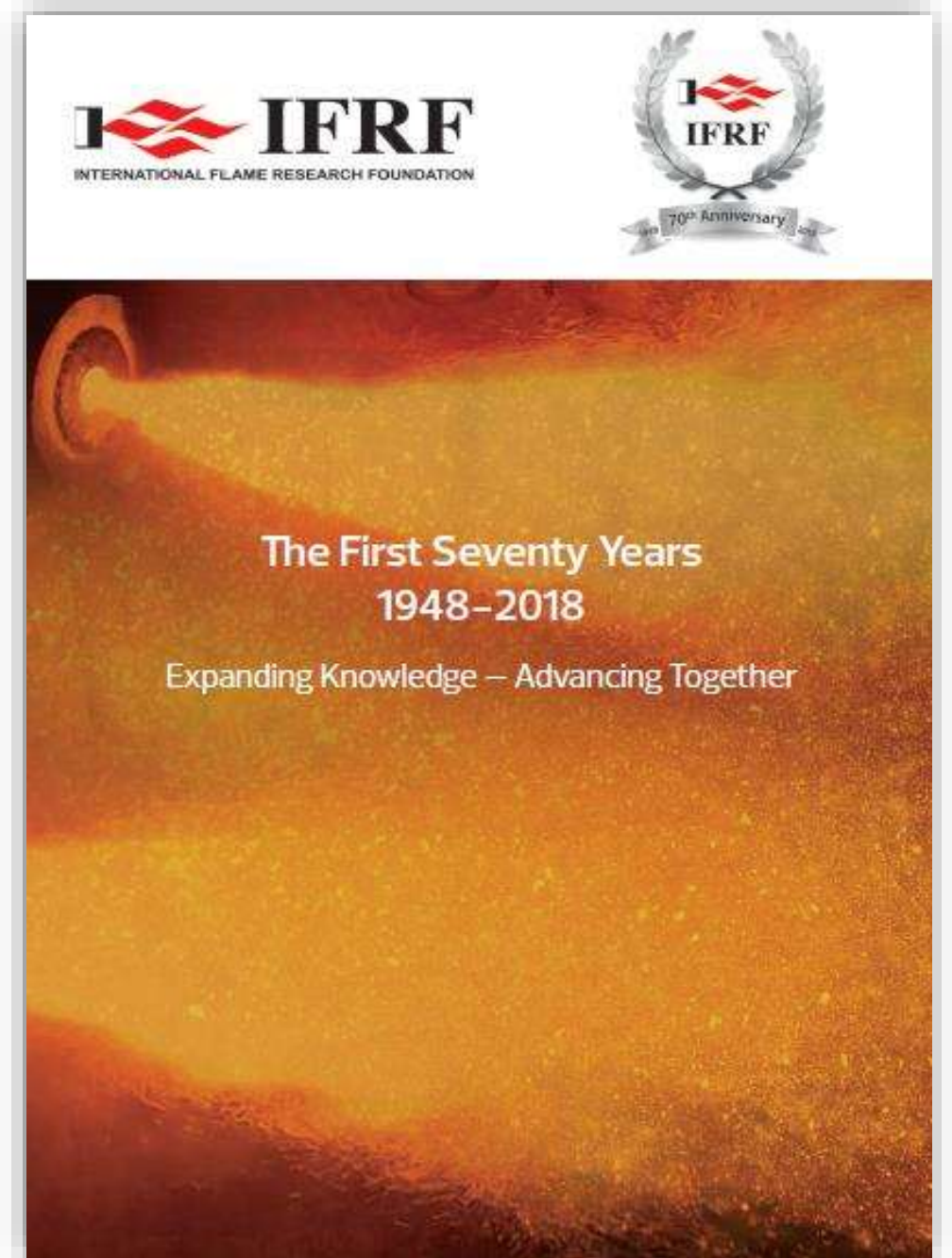
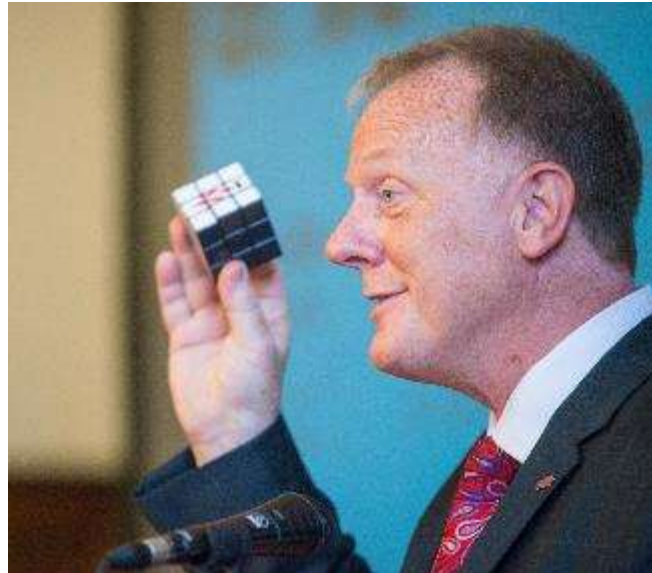
# IFRF QPR Q2: 8. Website and CRM database



- Site to be launched by the end of July 2018
- Propose to withdraw IVIN support at the end of Q3

## IFRF QPR Q2: 9. Marketing

- 70<sup>th</sup> anniversary 20-page brochure 'Expanding Knowledge – Advancing Together' launched at IFRF 2018 Conference
- Marketing materials such as roller banners, Rubik's cubes, pens, badges and flyers produced for IFRF 2018 Conference, etc.







## IFRF QPR Q2: 10. Member and general enquiries

### Types of member queries:

- How to submit a journal paper
- IFRF probes requests
- Accessing the IFRF 2018 presentations
- Letters of attendance for IFRF 2018



### 8 library requests\* from:

- Fives (1)
- GDTech France (2)
- TU Stuttgart (1)
- University of the Witwatersrand (4)

\*Up 6 from last quarter







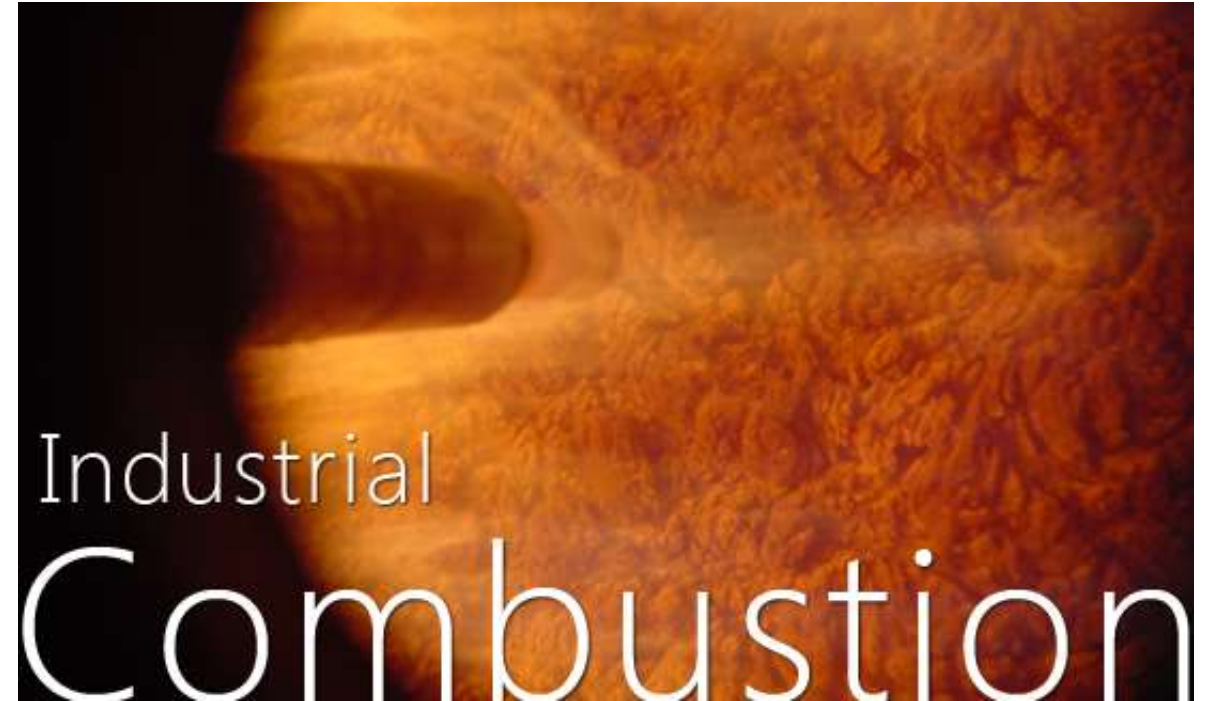
## IFRF QPR Q2: 11. Industrial Combustion Journal

**No papers published in Q2 (year to date = 1):**

**Five in the pipeline:**

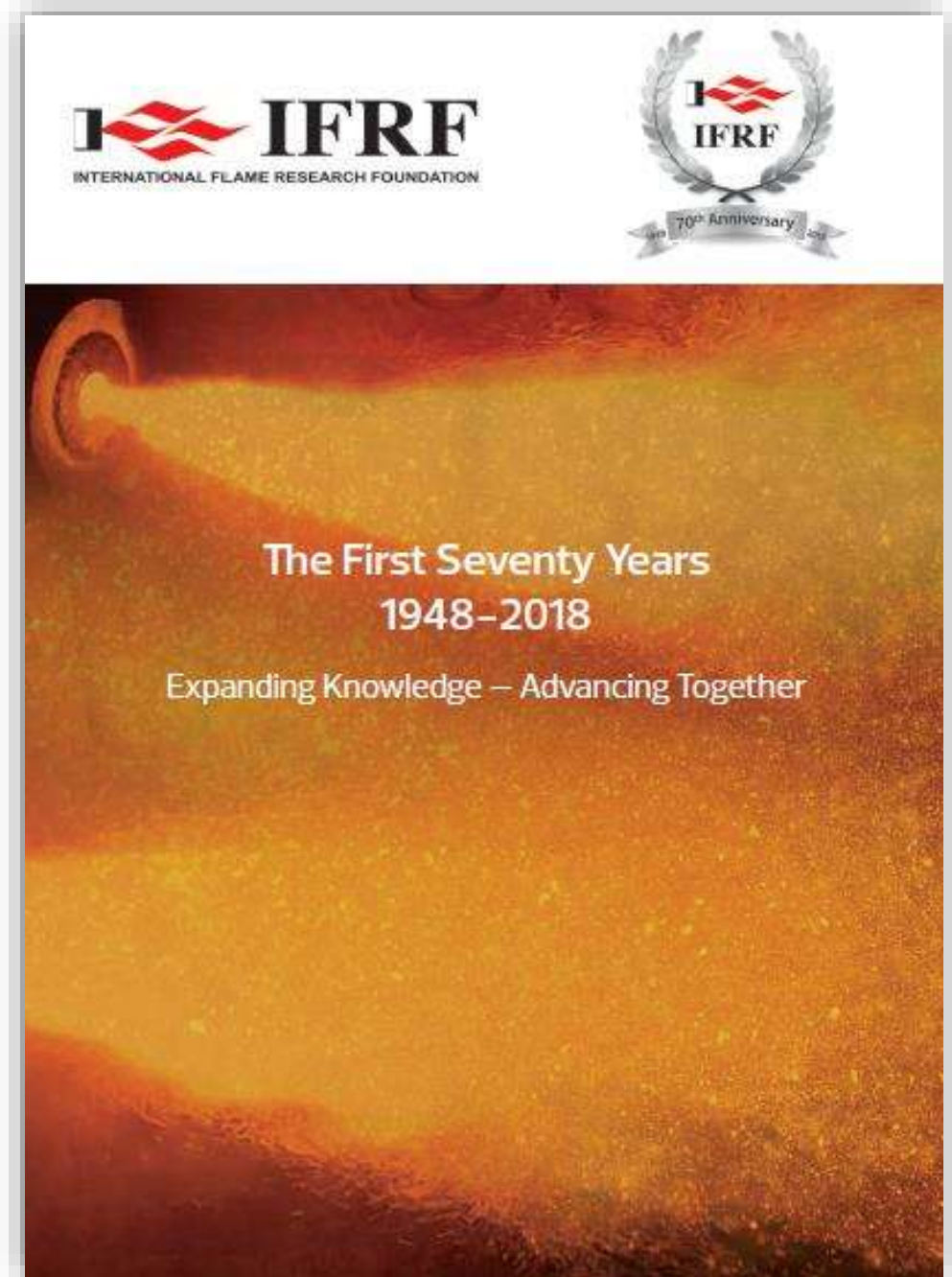
- University of Sheffield, UK
- Chalmers University of Technology, Sweden
- Sathyabama University, India
- Amity University Uttar Pradesh, India
- LPU, India

**Encouraging IFRF 2018 Conference presentations to be submitted for special edition**



# IFRF QPR Q2: 12. 70<sup>th</sup> Anniversary

- 70<sup>th</sup> anniversary 20-page brochure 'Expanding Knowledge – Advancing Together' launched at IFRF 2018 Conference
- 'Congratulatory messages' campaign; messages received from:
  - HRH Queen Elizabeth II (UK)
  - President Macron (France)
- 'Reigniting' blog series in Q2:
  - Reigniting the...mid-1990s to mid-2000s, by Peter Roberts
  - Reigniting the... 1990s, by Roman Weber
  - Reigniting the... mid-1980s to mid-1990s, by Jacques Dugué
- All activities shared on social media under **#IFRFat70**



### 13. IFRF Ltd matters

- Policies and procedures covering secondary matters approved by Council
- ExCo Q1 meeting held in April (virtual)

### 14. Other activities

- In discussions to purchase webinar software in partnership with the University of Sheffield, enabling us to host virtual Council meetings, and webinars for members and online training

