

**Formal Methods Europe**  
**Minutes of the 63<sup>th</sup> meeting (AGM)**  
**Held at the British Computer Society, London, UK**  
**4 May 2017**  
[www.fmeurope.org](http://www.fmeurope.org)

*Present* at the meeting were:

FME members:

- Jonathan Bowen [BCS-FACS and Museophile Ltd.]
- Ana Cavalcanti (Chair, by Skype) [U. York]
- Erik de Vink [TU Eindhoven]
- Lars-Henrik Eriksson (Secretary) [Uppsala U.]
- Alessandro Fantechi [U. Firenze]
- Stefania Gnesi [CNR-ISTI]
- Einar Broch Johnsen [U. Oslo]
- Matteo Rossi [Politecnico di Milano]

*Apologies* had been received from: Eerke Boiten, John Fitzgerald, Stefan Gruner, Cliff Jones, Dino Mandrioli, Nico Plat and Marcel Verhoef.

**1 Welcome and agree upon agenda**

As Ana Cavalcanti's Skype link was unreliable, Stefania Gnesi chaired the meeting. She welcomed the members present. All non-members present were invited to join FME.

**2 Minutes of the previous meeting and review of actions**

The minutes of the Limassol meeting were approved.

*Action 61/5: Erik de Vink to approach Marco Bernardo about a Memorandum of Understanding with the SFM school to allow them the use of FME's publication channels.*  
Done. Action closed.

*Action 61/6: Erik de Vink to investigate the consequences of offering FME members a discount on the FM'18 registration fee.*  
In progress. Action continues.

*Action 61/7: Ana Cavalcanti and Lars-Henrik Eriksson to contact members of the SE community about FME through FormaliSE.*  
In progress. Action continues.

*Action 62/1: The Board to revise the Symposium Guidelines considering the recommendations given by the FM'16 Chairs.*  
In progress. Action continues.

*Action 62/2: Stefania Gnesi to identify any possible collaboration in the organisation of FSE and FM in 2019.*  
Done. Collaboration is not possible due to the different dates. Action closed.

*Action 62/3: Matteo Rossi to start book reviews in January.*  
Done. Action closed.

*New action 63/1: Lars-Henrik Eriksson to make reports from the Book Review Committee a standing agenda item on Business Meetings.*

*Action 62/4: Lars-Henrik Eriksson to ensure that the Book Review Committee members are or become FME members.*  
In progress. Action continues.

The board has decided to add a number of actions decided upon at board meetings:

*New action 63/2: Lars-Henrik Eriksson and Einar Broch Johnsen to arrange an online membership application system when the FME web site moves from Graz to Oslo.*

*New action 63/3: Ana Cavalcanti and Lars-Henrik Eriksson to produce a report on the membership consultation (on hold until 2018).*

*New action 63/4: Ana Cavalcanti to identify members interested in supporting the teaching and industry-related activities of FME.*

*New action 63/5: Stefania Gnesi to discuss with Nico Plat the relationship of FormaliSE to FME.*

### **3 Annual report for 2016**

Lars-Henrik Eriksson presented the annual report of the board for 2016 (attached to the minutes). The meeting approved the report.

A report from the Book Review Committee is also attached to the minutes.

### **4 Financial report for 2016**

Erik de Vink presented the financial report for 2016 (attached to the minutes). The meeting approved the report.

### **5 Report by the Independent Financial Examiners**

The independent financial examiners (Marcel Verhoef and Nico Plat) had individually checked the FME accounts. These reports are attached to the minutes. The meeting discharged the Treasurer from his responsibilities during this period. Ana Cavalcanti thanked the Treasurer and the Independent Financial Examiners for their work.

*New action 63/6: Erik de Vink to reply to Marcel Verhoef to address the concerns in his Examiner Report.*

### **6 Elections**

**a) One board member (Chair), to serve until the 2020 AGM.** In accordance with FME statutes, Ana Cavalcanti stepped down as Board member. Ana had indicated her willingness to serve a further term. There were no other candidates to take her position. Therefore, Ana was reelected unopposed.

**b) One board member, to serve until the 2020 AGM.** In accordance with FME statutes, Stefania Gnesi stepped down as Board member. Stefania had indicated her willingness to serve a further term. There were no other candidates to take her position. Therefore, Stefania was reelected unopposed.

**c) One Independent Financial Examiner for 2017 and 2018.** According to FME statutes, Marcel Verhoef cannot serve another term as independent financial examiner. The meeting expressed its thanks for his service. Jonathan Bowen accepted taking this role. He was elected *nem con*.

### **7 Plan for 2017**

Stefania Gnesi presented the plans by the Board for 2017 (attached to the minutes). The meeting approved the plans.

### **8 Budget for 2017**

Erik de Vink presented the budget for 2017. The meeting approved the budget *nem con*.

## **9 FME web site/Electronic publications**

Einar Broch Johnsen reported on the publication activities and plans (attached to the minutes).

## **10 Symposia**

### **a) Final report on FM'16**

Stefania Gnesi reported on the end economic result of FM'16 – a surplus for FME of EUR 4.6k.

### **b) Report on FM'18**

Stefania Gnesi reported on the various FM representatives and Chairs. Steering Committee: Ana Cavalcanti, Organising Committee: Erik de Vink, Programme Committee Chairs: Bill Roscoe and Jan Peleska, Workshop Chairs: Helen Treharne and Maurice ter Beek, I-day Chairs: Klaus Haveland and a second person to be announced later (*Note*: After the meeting, Ralf Pinger was appointed second chair of the I-day), Doctoral Symposium Chairs: Eerke Boiten and Fathia Zaidi.

### **c) Status report on FM'19**

Stefania Gnesi reported that the FME Board, after consultation with the Steering Committee, has decided that FM'19 (World Congress) will be organised by the University of Minho, Braga, Portugal. The location will be Porto and the General Chair is José Nuno Oliveira.

## **11 Suggestions for joint events at the 2019 FM World Congress**

Stefania Gnesi asked for suggestions for joint events at FM'19. RV, DisCoTec, ATVA, SPIN, STAF and SEFM were suggested.

## **12 FormaliSE**

Discussion on the relationship between FME and FormaliSE. Stefania Gnesi reported on the FormaliSE 2017 workshop to be held on May 27 in Buenos Aires as a satellite event to ICSE

## **13 Date and place of next meeting**

The next meeting will be held during the iFM conference in Turin, September 18 - 22.

## **14 Other Business**

Jonathan Bowen suggested that FACS could sponsor a speaker at FM'18 in exchange for bona fide FACS members being able to attend this talk free if they wish - details to be discussed further.

## **Summary of open actions**

- Action 61/6: Erik de Vink to investigate the consequences of offering FME members a discount on the FM'18 registration fee.
- Action 61/7: Ana Cavalcanti and Lars-Henrik Eriksson to contact members of the SE community about FME through FormaliSE.
- Action 62/1: The Board to revise the Symposium Guidelines considering the recommendations given by the FM'16 Chairs.
- Action 62/4: Lars-Henrik Eriksson to ensure that the Book Review Committee members are or become FME members.
- Action 63/1: Lars-Henrik Eriksson to make reports from the Book Review Committee a standing agenda item on Business Meetings.
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- Action 63/4: Ana Cavalcanti to identify members interested in supporting the teaching and industry-related activities of FME.
- Action 63/5: Stefania Gnesi to discuss with Nico Plat the relationship of FormaliSE to FME.
- Action 63/6: Erik de Vink to reply to Marcel Verhoef about the concerns in his Examiner Report.

# ***Formal Methods Europe: report on activities in 2016***

## **The FME Board April 2017**

This report is a brief account of the association's activities between 1 January 2016 and 31 December 2016.

### **1. Board**

Board members during the period were Ana Cavalcanti (Chair), Lars-Henrik Eriksson (Secretary), Erik de Vink (Treasurer), Stefania Gnesi (Symposia and Deputy Chair), Bernhard Aichernig (Publications, up to the AGM) and Einar Broch Johnsen (Publications, after the AGM).

### **2. Membership**

On 31 December 2016 the association had 245 members in total, an increase of 2 from the previous year. There were 6 new members, 2 members cancelled their membership, 1 member was found to be deceased and 1 member was found to be duplicated.

171 members (70%) come from academic institutions, 61 (25%) from commercial institutions and 13 members (5%) have no affiliation or come from other institutions. Roughly 72% of the members are based in Europe. Only a small part of the membership (estimated at less than 10%) is actively involved in FME activities.

In the autumn of 2016 the FME Board sent an address update request to all members. 126 members have confirmed or updated their address details. 78 members didn't reply to the address update request, although their e-mail addresses appeared (and in some cases were known) to be correct. 35 members had invalid e-mail addresses and could not be reached. These members have had their membership suspended.

### **3. Symposia**

#### *FM'16*

FM'16 was organised by the University of Cyprus. The symposium was held November 7-11. Anna Philippou (University of Cyprus) was General Chair. John Fitzgerald (Newcastle University), Stefania Gnesi (ISTI-CNR) and Constance L. Heitmeyer (Naval Research Laboratory, US) were Programme Committee co-chairs.

#### *FM'18*

FM'18 will be organised as part of FLoC'18 in Oxford. The symposium will be held in July. Ana Cavalcanti is the FM representative on the FLoC Steering Committee and Erik de Vink is the FM representative on the FLoC Organising Committee. The PC chairs are Bill Roscoe (Oxford University) and Jan Peleska (University of Bremen).

#### **4. Publications**

On the initiative of FME, Springer-Verlag has begun a Formal Methods subseries of LNCS with the proceedings of FM'16 as the first volume.

The FME website, hosted by TU Graz and maintained first by Bernhard Aichernig then by Einar Broch Johnsen, and the FME mailing lists, maintained by Lars-Henrik Eriksson, continue to be the main means of reporting information about FME.

FME maintains a list of FM events including important dates. The list is available on the FME web site.

The FME events@fmeurope.org e-mailing list is available for announcements related to established conferences in the FM area as well as events organised or sponsored by FME.

FME also has a presence on the LinkedIn web site.

#### **5. Grants and sponsorships**

During 2016, FME has sponsored FMICS-AVOCS 2016 and FormaliSE 2016. Refer to the Financial Report for details.

#### **6. Special Interest Groups**

FME currently has no Special Interest Groups.

#### **7. Standing Committees**

FME currently has two standing committees: The Book Review Committee (contact: Matteo Rossi) and the Awards Committee (contact: Jim Woodcock).

#### **8. Industry-Research Collaboration**

FME has a Memorandum of Understanding with FMICS to collaborate in holding an annual joint industry-focussed event.

There is also a Memorandum of Understanding between FME and the British Computer Society Specialist Group on Formal Aspects of Computing Science (BCS-FACS) on holding an annual joint seminar.

#### **9. Meetings**

Two meetings were held in 2016. The AGM was held in Eindhoven (the Netherlands) on 8 April. 7 members participated in the meeting. A business meeting was held in Limassol on 10 November during the FM'16 Symposium. 19 members participated in that meeting.

Additionally, the Board held board meetings both in connection with FME meetings and using Skype.

## **10. Awards**

The first Peter Lucas award for a "highly influential paper" in Formal Methods was awarded to Jeremy Dick and Alain Faivre at FM'16 for their paper "Automating the Generation and Sequencing of Test Cases from Model-Based Specification", presented at the FME'93 Symposium.

## **11. Membership Consultation**

In the autumn of 2016, the Board held an online consultation with the membership on the future goals and activities of the association. Some 50 members responded and their comments will form the basis for the future plans of FME.



# Report on the activity of the FME Book Review Committee

May 2017

The Book Review Committee (BRC) was established by the FME board at the AGM held in Eindhoven in April 2016, with the aim of providing the FM community at large (not necessarily just FME members) with high-quality reviews of books that are of interest for the community. Reviews should highlight the strengths and weaknesses of each book, to help researchers, students, and professionals in the FM domain in their searches for reference texts in their areas of interest.

The BRC has been set up, and is composed by the following people:

- Wan Fokkink (Vrije Universiteit Amsterdam, NL)
- Einar Broch Johnsen (University of Oslo, NO)
- Constance Heitmeyer (Naval Research Laboratory, US)
- Peter Gorm Larsen (Aarhus University, DK)
- Annabelle McIver (Macquarie University, AUS)
- Matteo Rossi (Politecnico di Milano, IT, chair)

A few ground rules and procedures have been discussed and agreed.

Reviews will be managed by BRC members, and they could be performed by BRC members themselves, or by external people contacted by BRC members. Normally, the committee does not accept unsolicited reviews; however, it will be glad to consider suggestions for books to be reviewed.

The books to be reviewed should be of interest for the FM community, and they should be of reasonably recent publication (where “recent” can be a flexible concept, although indicatively the suggestion is to consider books that are not older than 4-5 years).

Reviews will not be anonymous. They will be published on the FME website. Reviews will also be referred for possible publication (possibly in revised form) in the *Formal Aspects of Computing* journal, but the final decision in this case rests with the editor in chief of the journal.

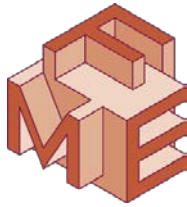
A number of books have been selected for review:

- *Concrete Semantics* (T. Nipkow, and G. Klein), Springer
- *Modeling and Analysis of Communicating Systems* (J. F. Groote and M. R. Mousavi), MIT Press
- *Logic in Games* (J. van Benthem), MIT Press
- *Principles of Cyber-Physical Systems* (R. Alur), MIT Press
- *Reasoning about Uncertainty*, Second Edition (J. Y. Halpern), MIT Press

Of these planned reviews, the one for the “Concrete Semantics” book has been completed, and is currently being discussed.

Currently, contacts have been established with Springer and MIT Press representatives to provide complimentary copies of books to be reviewed to the selected reviewers.





## **Financial Report 2016 Budget 2017**

Draft report to FME membership  
April 2017  
Formal Methods Europe

Prepared by Erik de Vink (Treasurer)

### **Introduction**

This document provides:

- A look at the past: the 2016 budget as approved at the 60<sup>th</sup> FME meeting, AGM 2016, held on 7 April 2016 at the Eindhoven University of Technology, Eindhoven, the Netherlands.
- A look at the present: the financial performance of the association in the fiscal year 2016.
- And a look into the future: the proposed 2017 budget.

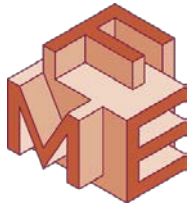
The association remains financially solid. We have sufficient means to cover the potential financial risks involved in organizing our future symposia. However, as interest is low and no symposium will be held in 2017, the current sponsoring policy and the costs for running the association need to be reconsidered.

For 2017 the treasurer proposes to have no sponsoring activities besides the support for FormaliSE, the FME workshop at ICSE, to which we already committed. Also, for the years to come the board and the membership of the association need to take strategic decisions to maintain balance between income and spending in the long run.

The independent financial examiners who will review the bank statements and cashbook of our association for 2016 are Marcel Verhoef and Nico Plat (FME members).

Eindhoven, 21 April 2017

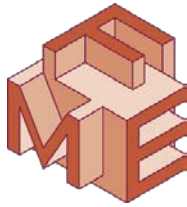
Erik de Vink  
Treasurer



**Approved Budget Fiscal Year 2015**

Below the budget for FME as it was approved by the membership at the Annual General Meeting, which was held at Eindhoven University of Technology, on April 7, 2016 (see minutes of the 60<sup>th</sup> meeting, available on-line at <http://www.fmeurope.org>).

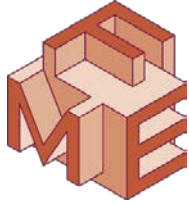
FME BUDGET FISCAL YEAR 2016					
no	description	surplus & deficit		balance sheet	
		debit	credit	debit	credit
01	Nett assets regular account (31-12-2015)			4.56	
02	Nett assets savings account (31-12-2015)			57,140.50	
03	Total assets end 2016				54,845.06
	<i>Administrative items</i>				
04	Interest received on deposit account		400.00		
05	Banking and organisational cost	200.00			
	<i>Operational items</i>				
06	Surplus FM 2015 Oslo		10,500.00		
07	Sponsoring FM 2015 workshops/tutorials	5,000.00			
08	ICSE/FormaliSE 2016	2,500.00			
09	Sponsoring budget 2016	1,000.00			
10	Joint BCS-FACS / FME seminar	500.00			
11	Travel costs FME board	4,000.00			
12	<i>Subtotals</i>	<i>13,200.00</i>	<i>10,900.00</i>	<i>57,145.06</i>	<i>54,845.06</i>
13	Net deficit	<b>2,300.00</b>		<b>2,300.00</b>	
14	<i>Totals</i>	<i>10,900.00</i>	<i>10,900.00</i>	<i>54,845.06</i>	<i>54,845.06</i>



**Financial Report Fiscal Year 2016**

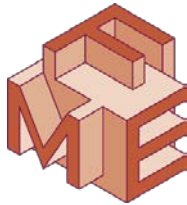
The surplus & deficit and balance sheet for the fiscal year 2016 is as follows.

<b>FME SURPLUS &amp; DEFICIT AND BALANCE SHEET FISCAL YEAR 2016</b>					
no	description	profit & loss		balance sheet	
		debit	credit	debit	credit
01	Net assets regular account (31-12-2015)			4.56	
02	Net assets deposito account (31-12-2015)			57,140.50	
03	Total assets end 2016				57,324.10
	<i>Administrative items</i>				
04	Interest received on deposito account		115.10		
05	Banking and organisational cost	209.43			
	<i>Operational items</i>				
06	Surplus FM 2015 Oslo		5,300.45		
07	Sponsoring FM 2015 workshops/tutorials	0.00			
08	ICSE/FormaliSE 2016	2,500.00			
09	Sponsoring budget 2016	450.00			
10	FME Fellowship	0.00			
11	Joint BCS-FACS / FME seminar	0.00			
12	Travel costs FME board	2,077.08			
13	<i>Subtotals</i>	<i>5,236.51</i>	<i>5,415.55</i>	<i>57,145.06</i>	<i>57,324.10</i>
14	Net surplus	<i>179.04</i>		<i>179.04</i>	
15	<i>Totals</i>	<i>5,415.55</i>	<i>5,415.55</i>	<i>57,324.10</i>	<i>57,324.10</i>



With respect to this report, the following observations can be made:

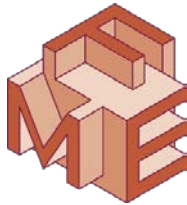
- Received interest (04) was lower because of the marginal interest rate in 2016.
- Banking costs were more or less as projected. See (05).
- FM 2015 in Oslo yielded a gross surplus of € 10,300, after settlement of sponsoring of FM 2015 satellite events (07) the nett surplus was € 5,300 as listed.
- The sponsoring for the FormaliSE workshop affiliated with the ICSE 2016 conference in Austin, requested by Nico Plat and Stefania Gnesi, covered part of the organizing and travelling costs of invited speakers. See item (08).
- Further FME sponsored in 2016 (09) the joint FMICS/AVoCS workshop held in Pisa, requested by Maurice ter Beek. An activity that was planned to be sponsored did not go through.
- Costs associated with the FME Fellowship awarded in Oslo (10) were booked in 2015.
- The joint BCS-FACS/FME seminar didn't take place in 2016. See item (11).
- Travel cost (12) was below budget, accounting for two physical meetings (Eindhoven and Limassol), because of other travel support.
- The fiscal year 2016 was closed with a small surplus of € 179.04, see item (14), with total assets of € 57,324.10, see item (15).



**Proposed Budget Fiscal Year 2017**

The total gross available assets of the association on 1 January 2017 are € 57,324.10. This value is the starting point for the budget 2017, as shown below. The budget shows a deficit of € 900.00, leading to total gross assets of € 56,424.10 by 31 December 2017.

<b>FME BUDGET FISCAL YEAR 2017</b>					
<b>no</b>	<b>description</b>	<b>surplus &amp; deficit</b>		<b>balance sheet</b>	
		<b>debit</b>	<b>credit</b>	<b>debit</b>	<b>credit</b>
01	Nett assets regular account (31-12-2016)			10.83	
02	Nett assets savings account (31-12-2016)			57,313.27	
03	Total assets end 2017				56,424.10
	<i>Administrative items</i>				
04	Interest received on deposit account		100.00		
05	Banking and organisational cost	200.00			
	<i>Operational items</i>				
06	Surplus FM 2016 Limassol		4,600.00		
07	ICSE/FormaliSE 2016	2,500.00			
08	Sponsoring budget 2016	0.00			
09	Joint BCS-FACS / FME seminar	500.00			
10	Travel costs FME board	2.400.00			
12	<i>Subtotals</i>	5.600.00	4,700.00	57,324.10	56,424.10
13	Net deficit	900.00		900.00	
14	<i>Totals</i>	4,700.00	4,700.00	56,424.10	56,424.10



A few remarks about this budget:

1. Interest (04) and banking cost (05) are adapted 2016 levels.
2. The surplus for FM 2016 in Limassol (06) is € 4,600. Books will be closed this year.
3. FME organizes the FormaliSE workshop at ICSE 2017 in Buenos Aires for which € 2,500 is budgeted to cover travel expenses and organizational cost for this event (07).
4. The FME sponsoring budget to cover other events is nihil (08).
5. A joint seminar with BCF-FACS is planned in co-location with the AGM (09).
6. Travel costs for the board (10) to accommodate for a physical meeting in London and travelling related to the organization of FM/FLoC 2018 in Oxford.

**END OF REPORT**

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Formal Methods Europe  
Attn. Mr. Lars-Henrik Eriksson (Secretary)  
CC: FME members

Rotterdam, 27 April 2017

Dear Mr. Eriksson,

This is to inform you that, on your request, I have checked the financial information regarding FME's accounts over the year 2016, which was sent to me by Mr. Erik de Vink on 21 April 2017.

I have checked the records and found no irregularities in them, i.e. I find them accurate and correct.

Therefore I advise the FME AGM, to be held on 4 May 2017, to accept the financial report presented.

Yours sincerely,  
Thanos

Nico Plat

Formal Methods Europe  
attn. L-H. Eriksson  
Box 337  
SE-751 05 UPPSALA  
Sweden

The Hague, 3 May 2017

Subject: independent financial examination fiscal year 2016

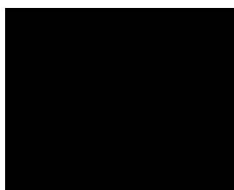
Dear members of Formal Methods Europe,

I have performed an independent financial examination of the finances of FME for the fiscal year 2016. The treasurer of FME has provided to me on 21 April 2017 all bank statements, a cashbook and a draft financial report over 2016 that is based on these financial statements. I confirm that the financial records are consistent and are properly reflected in the financial report 2016 (with 57324.10 Euro of reserves remaining, and a nett profit over 2016 of 179.04 Euro). I recommend that the financial report is approved at the AGM in London on May 4, and I propose to discharge the treasurer of his duties over 2016.

It is noteworthy however that the surplus of FM2015 has been consumed almost entirely in this fiscal year alone; the board of FME should, in my opinion, strive to keep the level of expenses on par with projected (and realistic) incomes from our symposia, in order to provide a cushion and a safety net for organisation of next events, in particular in the light of the ambition to once again organise another world conference in 2019.

I apologize for not being able to present this report in person at the AGM.

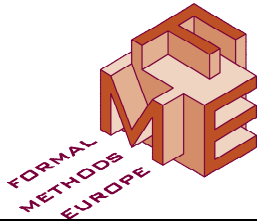
Sincerely,



Marcel Verhoef (FME member)



The Netherlands



## **Priorities**

- Success of FM 2018
- Success of FM 2019

## **Symposia**

The main focus is the successful running of FM2018 and planning of FM 2019. We will be interested in the views of recent chairs, conference participants and FME members on how best to further strengthen the symposium's international reputation. In particular, input on plans for the Third World Congress in 2019 is very welcome.

**Responsible:** Stefania Gnesi

## **Coordination of Events**

We will keep the list of upcoming events in our homepage up to date and comprehensive to include major events in the area of formal methods.

**Responsible:** Einar Johnsen

## **Membership**

We will develop and implement activities for achieving a sustainable (modestly increasing) level of membership. We will seek ways to make the association more useful to a wider portion of the formal methods community, and we will make sure that the membership reflects the active members of the society.

**Responsible:** Lars-Henrik Eriksson

## **Finances and Sponsorship**

We do not foresee a need to review our policies fundamentally in the coming year. However, we will review this in the light of performance, and if the current reserves warrant it, invite special initiatives if appropriate.

**Responsible:** Erik de Vink

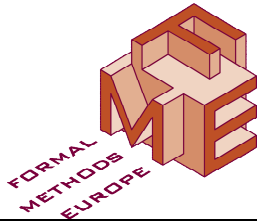
## **External Relations**

We will continue our cooperation with BCS-FACS and FMICS. We will continue to support and encourage initiatives including the FormaliSE workshop at ICSE.

**Responsible:** Ana Cavalcanti

## **Publications**

We will continue to maintain the website as FME's primary medium for disseminating its activities to the general public. We expect to keep the average publication rate of



one posting per month.

**Responsible:** Einar Johnsen

### **FME Fellowship**

We will work with the Awards Committee to confer the second FME Fellowship during FM2018.

**Responsible:** Ana Cavalcanti

### **Book reviews**

We will work with the Book Review Committee to start publishing the first book reviews already in 2017 and establish a steady stream of publications.

**Responsible:** Ana Cavalcanti/Matteo Rossi

### **Support for teaching**

We will work with the membership to create a committee to take forward ideas raised in the membership consultation to support teaching of formal methods. We will consider making teaching material available, both for teaching in academia and in industry, case studies, supporting Summer Schools, and support colleagues in various ways, especially young academics.

**Responsible:** Ana Cavalcanti

# Report on FME's Publication Activity in 2016

Einar Broch Johnsen (Board Member)

23 April 2017

**Web-Site.** FME's website <http://www.fmeurope.org> is a Wordpress CMS hosted at Graz University of Technology and is maintained by Einar Broch Johnsen. Its purpose is to publish the ongoing activities of FME as an organisation. This includes the announcement of the FM symposia, the FME meetings, and events sponsored by FME. A popular page with upcoming Formal Methods conferences was established in 2014. The site currently comprises of 96 published posts and 12 static pages. In 2016, a total of 8 new posts and pages were published.

Google analytics shows the following statistics for 2016: 8,782 sessions (8,301 in 2015, plus 6%), 5,803 users (5,377 in 2015, plus 8%), 18,215 page views (18,541 in 2015, minus 2%), 2.07 average pages per session (2.23 in 2015, minus 7%), 1:20 minutes avg. session duration (1:28 in 2015, minus 9%). The visits came from the following top ten countries: UK, USA, Germany, France, Italy, China, The Netherlands, India, Austria, Japan. The top ten countries in terms of visitors are the same as in 2015 and 2014. Among these, the strongest increase in sessions came from the UK (+53%) and the USA (+31%). The largest increase in new users was in the UK (+75%) and Italy (+ 37%).

The three most frequently visited pages, next to the homepage, were (1) Upcoming FM Conferences (2,861 page views), (2) FM 2016 in Cyprus (1,451 page views), and (3) FM2016 Call for Papers (1,332 views).

Attached is a Google Analytics summary report.

**Upcoming Formal Methods Conferences.** As a service to the members we maintain a page with a list of upcoming conferences in formal methods. Its main purpose is coordination among conference organisers. Therefore, we established contacts with the steering committees and actively poll them for conference dates before publication in Call for Papers. It is now the most popular page on our web-site.

**LinkedIn Group.** Since July 2010, FME has a presence on the social network LinkedIn. The discussion group is called Formal Methods Europe. Jonathan Bowen is its owner, John Fitzgerald, Bernhard Aichernig, Einar Broch Johnsen are the managers of the group. Everybody can read the group. Only members can write. It currently has 1,602 members (last year: 1,462 members).

Jan 1, 2016 - Dec 31, 2016  
Compare to: Jan 1, 2015 - Dec 31, 2015

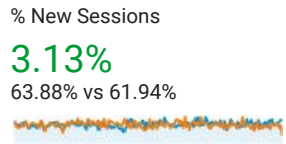
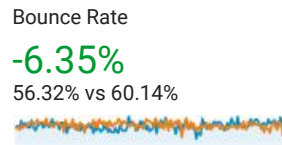
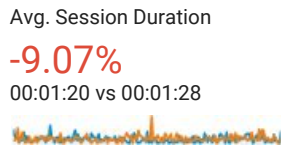
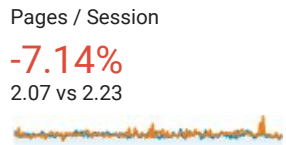
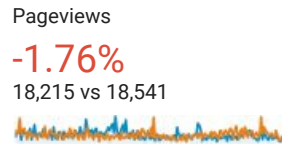
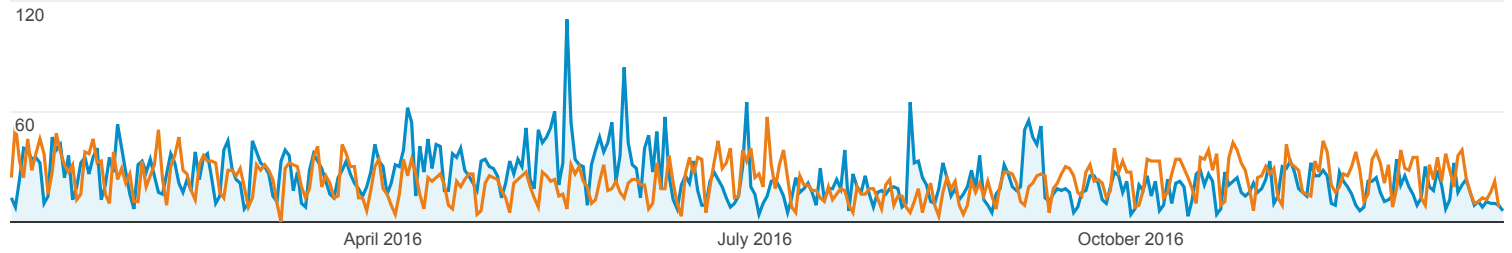
## Audience Overview

You are using a filtered view, which may cause your Users count to be inaccurate. [Learn more](#)

All Users  
+0.00% Sessions

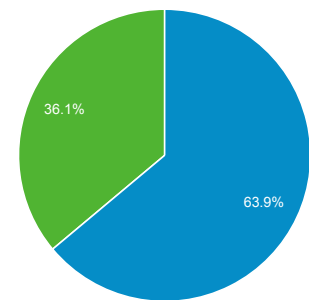
### Overview

Jan 1, 2016 - Dec 31, 2016: Sessions  
Jan 1, 2015 - Dec 31, 2015: Sessions

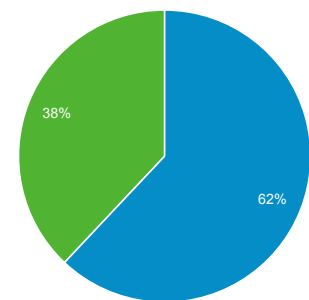


■ New Visitor ■ Returning Visitor

Jan 1, 2016 - Dec 31, 2016



Jan 1, 2015 - Dec 31, 2015



### Language

Sessions % Sessions

Language	Period	Sessions	% Sessions
1. en-us	Jan 1, 2016 - Dec 31, 2016	4,947	56.33%
	Jan 1, 2015 - Dec 31, 2015	4,537	54.66%
	<b>% Change</b>	<b>9.04%</b>	<b>3.06%</b>
2. en-gb	Jan 1, 2016 - Dec 31, 2016	653	7.44%
	Jan 1, 2015 - Dec 31, 2015	508	6.12%
	<b>% Change</b>	<b>28.54%</b>	<b>21.50%</b>
3. fr	Jan 1, 2016 - Dec 31, 2016	491	5.59%
	Jan 1, 2015 - Dec 31, 2015	488	5.88%
	<b>% Change</b>	<b>0.61%</b>	<b>-4.90%</b>

## 4. (not set)

Jan 1, 2016 - Dec 31, 2016	426	4.85%
Jan 1, 2015 - Dec 31, 2015	1	0.01%
<b>% Change</b>	<b>42,500.00%</b>	<b>40,166.75%</b>

## 5. zh-cn

Jan 1, 2016 - Dec 31, 2016	365	4.16%
Jan 1, 2015 - Dec 31, 2015	472	5.69%
<b>% Change</b>	<b>-22.67%</b>	<b>-26.90%</b>

## 6. de

Jan 1, 2016 - Dec 31, 2016	340	3.87%
Jan 1, 2015 - Dec 31, 2015	618	7.44%
<b>% Change</b>	<b>-44.98%</b>	<b>-48.00%</b>

## 7. ja

Jan 1, 2016 - Dec 31, 2016	133	1.51%
Jan 1, 2015 - Dec 31, 2015	194	2.34%
<b>% Change</b>	<b>-31.44%</b>	<b>-35.20%</b>

## 8. fr-fr

Jan 1, 2016 - Dec 31, 2016	114	1.30%
Jan 1, 2015 - Dec 31, 2015	97	1.17%
<b>% Change</b>	<b>17.53%</b>	<b>11.09%</b>

## 9. pt-br

Jan 1, 2016 - Dec 31, 2016	113	1.29%
Jan 1, 2015 - Dec 31, 2015	103	1.24%
<b>% Change</b>	<b>9.71%</b>	<b>3.70%</b>

## 10. de-de

Jan 1, 2016 - Dec 31, 2016	93	1.06%
Jan 1, 2015 - Dec 31, 2015	101	1.22%
<b>% Change</b>	<b>-7.92%</b>	<b>-12.96%</b>



Jan 1, 2016 - Dec 31, 2016	<b>399</b> (4.54%)	55.14%	<b>220</b> (3.92%)	54.64%	2.18	00:01:13	0.00%	0 (0.00%)	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>407</b> (4.90%)	40.29%	<b>164</b> (3.19%)	45.95%	2.49	00:01:09	0.00%	0 (0.00%)	\$0.00 (0.00%)
<b>% Change</b>	<b>-1.97%</b>	<b>36.84%</b>	<b>34.15%</b>	<b>18.91%</b>	<b>-12.77%</b>	<b>5.92%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>
6. <b>China</b>									
Jan 1, 2016 - Dec 31, 2016	<b>304</b> (3.46%)	66.78%	<b>203</b> (3.62%)	43.09%	2.60	00:02:17	0.00%	0 (0.00%)	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>427</b> (5.14%)	63.23%	<b>270</b> (5.24%)	48.24%	2.73	00:02:06	0.00%	0 (0.00%)	\$0.00 (0.00%)
<b>% Change</b>	<b>-28.81%</b>	<b>5.61%</b>	<b>-24.81%</b>	<b>-10.68%</b>	<b>-4.92%</b>	<b>9.29%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>
7. <b>Netherlands</b>									
Jan 1, 2016 - Dec 31, 2016	<b>296</b> (3.37%)	55.07%	<b>163</b> (2.90%)	51.69%	2.28	00:01:46	0.00%	0 (0.00%)	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>286</b> (3.45%)	67.48%	<b>193</b> (3.75%)	59.09%	2.21	00:00:59	0.00%	0 (0.00%)	\$0.00 (0.00%)
<b>% Change</b>	<b>3.50%</b>	<b>-18.40%</b>	<b>-15.54%</b>	<b>-12.53%</b>	<b>2.88%</b>	<b>80.95%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>
8. <b>India</b>									
Jan 1, 2016 - Dec 31, 2016	<b>271</b> (3.09%)	78.97%	<b>214</b> (3.81%)	65.68%	1.85	00:01:38	0.00%	0 (0.00%)	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>294</b> (3.54%)	77.55%	<b>228</b> (4.43%)	67.01%	1.79	00:01:14	0.00%	0 (0.00%)	\$0.00 (0.00%)
<b>% Change</b>	<b>-7.82%</b>	<b>1.83%</b>	<b>-6.14%</b>	<b>-1.98%</b>	<b>3.53%</b>	<b>33.14%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>
9. <b>Austria</b>									
Jan 1, 2016 - Dec 31, 2016	<b>268</b> (3.05%)	44.78%	<b>120</b> (2.14%)	48.13%	2.74	00:02:55	0.00%	0 (0.00%)	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>334</b> (4.02%)	38.92%	<b>130</b> (2.53%)	39.22%	4.83	00:05:49	0.00%	0 (0.00%)	\$0.00 (0.00%)
<b>% Change</b>	<b>-19.76%</b>	<b>15.04%</b>	<b>-7.69%</b>	<b>22.72%</b>	<b>-43.40%</b>	<b>-49.87%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>
10. <b>Japan</b>									
Jan 1, 2016 - Dec 31, 2016	<b>236</b> (2.69%)	63.14%	<b>149</b> (2.66%)	50.85%	2.33	00:01:44	0.00%	0 (0.00%)	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>301</b> (3.63%)	58.14%	<b>175</b> (3.40%)	60.13%	2.14	00:01:13	0.00%	0 (0.00%)	\$0.00 (0.00%)
<b>% Change</b>	<b>-21.59%</b>	<b>8.59%</b>	<b>-14.86%</b>	<b>-15.44%</b>	<b>8.93%</b>	<b>43.25%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>

Rows 1 - 10 of 137

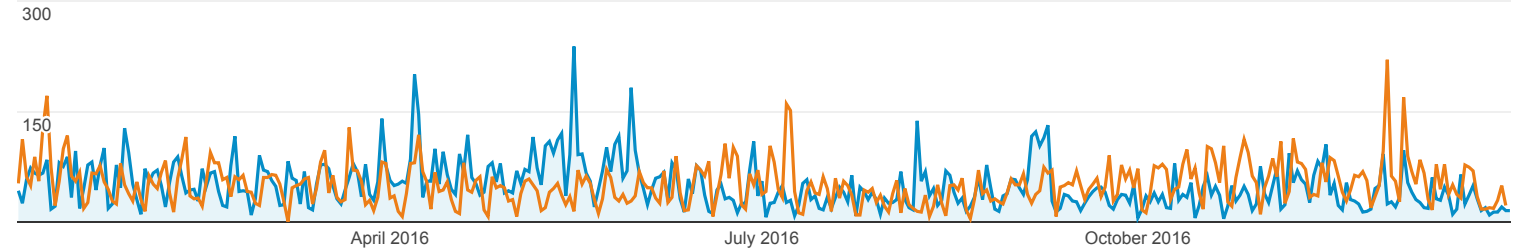
Jan 1, 2016 - Dec 31, 2016  
Compare to: Jan 1, 2015 - Dec 31, 2015

Pages

All Users  
+0.00% Pageviews

Explorer

Jan 1, 2016 - Dec 31, 2016: ● Pageviews  
Jan 1, 2015 - Dec 31, 2015: ● Pageviews



Page Title	Pageviews	Unique Pageviews	Avg. Time on Page	Entrances	Bounce Rate	% Exit	Page Value
	1.76% ↓ 18,215 vs 18,541	0.61% ↑ 14,284 vs 14,197	4.44% ↑ 00:01:14 vs 00:01:11	5.79% ↑ 8,782 vs 8,301	6.35% ↑ 56.32% vs 60.14%	7.69% ↑ 48.21% vs 44.77%	0.00% \$0.00 vs \$0.00
1. <a href="#">Formal Methods Europe</a>							
Jan 1, 2016 - Dec 31, 2016	<b>6,756</b> (37.09%)	5,259 (36.82%)	00:00:52	4,965 (56.54%)	42.22%	39.49%	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>5,705</b> (30.77%)	4,307 (30.34%)	00:00:50	3,955 (47.64%)	41.16%	37.21%	\$0.00 (0.00%)
<b>% Change</b>	<b>18.42%</b>	<b>22.10%</b>	<b>4.42%</b>	<b>25.54%</b>	<b>2.56%</b>	<b>6.12%</b>	<b>0.00%</b>
2. <a href="#">Formal Methods Europe » Feature » Upcoming FM Conferences</a>							
Jan 1, 2016 - Dec 31, 2016	<b>2,861</b> (15.71%)	2,215 (15.51%)	00:03:21	1,875 (21.35%)	79.15%	69.56%	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>3,649</b> (19.68%)	2,872 (20.23%)	00:03:16	2,442 (29.42%)	81.12%	72.32%	\$0.00 (0.00%)
<b>% Change</b>	<b>-21.59%</b>	<b>-22.88%</b>	<b>2.42%</b>	<b>-23.22%</b>	<b>-2.44%</b>	<b>-3.82%</b>	<b>0.00%</b>
3. <a href="#">Formal Methods Europe » Lead Story Uncategorized » FM 2016 in Cyprus</a>							
Jan 1, 2016 - Dec 31, 2016	<b>1,451</b> (7.97%)	1,200 (8.40%)	00:01:24	206 (2.35%)	73.79%	66.92%	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>1,134</b> (6.12%)	756 (5.33%)	00:01:15	162 (1.95%)	67.90%	46.91%	\$0.00 (0.00%)
<b>% Change</b>	<b>27.95%</b>	<b>58.73%</b>	<b>12.00%</b>	<b>27.16%</b>	<b>8.67%</b>	<b>42.64%</b>	<b>0.00%</b>
4. <a href="#">Formal Methods Europe » News » Call for Papers: FM 2016</a>							
Jan 1, 2016 - Dec 31, 2016	<b>1,332</b> (7.31%)	1,133 (7.93%)	00:02:19	306 (3.48%)	75.82%	67.19%	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>72</b> (0.39%)	65 (0.46%)	00:03:51	16 (0.19%)	93.75%	63.89%	\$0.00 (0.00%)
<b>% Change</b>	<b>1,750.00%</b>	<b>1,643.08%</b>	<b>-39.60%</b>	<b>1,812.50%</b>	<b>-19.13%</b>	<b>5.17%</b>	<b>0.00%</b>
5. <a href="#">Formal Methods Europe » Symposia</a>							
Jan 1, 2016 - Dec 31, 2016	<b>715</b> (3.93%)	559 (3.91%)	00:01:08	79 (0.90%)	70.89%	45.87%	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>790</b> (4.26%)	634 (4.47%)	00:01:13	82 (0.99%)	76.83%	45.06%	\$0.00 (0.00%)
<b>% Change</b>	<b>-9.49%</b>	<b>-11.83%</b>	<b>-6.15%</b>	<b>-3.66%</b>	<b>-7.74%</b>	<b>1.80%</b>	<b>0.00%</b>

6. <a href="#">Formal Methods Europe » Formal Methods</a>							
Jan 1, 2016 - Dec 31, 2016	<b>637</b> (3.50%)	535 (3.75%)	00:01:07	221 (2.52%)	76.92%	42.54%	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>643</b> (3.47%)	532 (3.75%)	00:00:59	167 (2.01%)	79.64%	32.35%	\$0.00 (0.00%)
<b>% Change</b>	<b>-0.93%</b>	<b>0.56%</b>	<b>14.26%</b>	<b>32.34%</b>	<b>-3.41%</b>	<b>31.52%</b>	<b>0.00%</b>
7. <a href="#">www1.free-share-buttons.top</a>							
Jan 1, 2016 - Dec 31, 2016	<b>535</b> (2.94%)	185 (1.30%)	00:00:00	185 (2.11%)	4.32%	34.58%	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>0</b> (0.00%)	0 (0.00%)	00:00:00	0 (0.00%)	0.00%	0.00%	\$0.00 (0.00%)
<b>% Change</b>	<b>∞%</b>	<b>∞%</b>	<b>0.00%</b>	<b>∞%</b>	<b>∞%</b>	<b>∞%</b>	<b>0.00%</b>
8. <a href="#">Formal Methods Europe » Documents</a>							
Jan 1, 2016 - Dec 31, 2016	<b>506</b> (2.78%)	399 (2.79%)	00:00:49	15 (0.17%)	33.33%	25.30%	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>678</b> (3.66%)	489 (3.44%)	00:00:32	19 (0.23%)	26.32%	20.35%	\$0.00 (0.00%)
<b>% Change</b>	<b>-25.37%</b>	<b>-18.40%</b>	<b>50.31%</b>	<b>-21.05%</b>	<b>26.67%</b>	<b>24.28%</b>	<b>0.00%</b>
9. <a href="#">Formal Methods Europe » Minutes</a>							
Jan 1, 2016 - Dec 31, 2016	<b>302</b> (1.66%)	224 (1.57%)	00:00:48	8 (0.09%)	50.00%	22.85%	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>364</b> (1.96%)	246 (1.73%)	00:00:52	10 (0.12%)	60.00%	13.74%	\$0.00 (0.00%)
<b>% Change</b>	<b>-17.03%</b>	<b>-8.94%</b>	<b>-8.85%</b>	<b>-20.00%</b>	<b>-16.67%</b>	<b>66.33%</b>	<b>0.00%</b>
10. <a href="#">Formal Methods Europe » About Us</a>							
Jan 1, 2016 - Dec 31, 2016	<b>251</b> (1.38%)	202 (1.41%)	00:00:32	4 (0.05%)	25.00%	13.55%	\$0.00 (0.00%)
Jan 1, 2015 - Dec 31, 2015	<b>308</b> (1.66%)	232 (1.63%)	00:00:19	9 (0.11%)	33.33%	13.31%	\$0.00 (0.00%)
<b>% Change</b>	<b>-18.51%</b>	<b>-12.93%</b>	<b>73.52%</b>	<b>-55.56%</b>	<b>-25.00%</b>	<b>1.76%</b>	<b>0.00%</b>

Rows 1 - 10 of 225