Date: 15 May 2016
Location: Austin, Texas
co-located with ICSE 2016
http://2016.icse.cs.txstate.edu/

FME representatives (OC and PC):
Nico Plat and Stefania Gnesi
http://www.fmeurope.org/
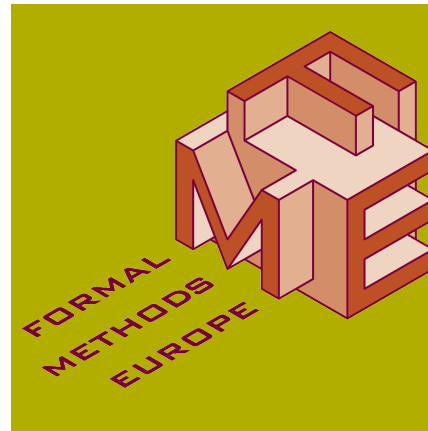
Keynotes by *Pamela Zave* (AT&T Reasearch) and *Don Batory* (University of Texas)
7 Paper presentations
Panel discussion

FormaliSE 2016

FME Workshop on Formal Methods in Software Engineering

www.formalise.org

+ The numbers

| Edition	#Submissions	Acceptance rate	#Attendees
2012 (Zurich)	16	50%	Unknown
2013 (San Francisco)	25	35%	25
2014 (Hyderabad)	21	40%	32
2015 (Florence)	27	33%	35
2016 (Austin)	18 (*)	44%	13

(*) 7 from the US/Canada, 8 from Europe, 3 rest of the world.
50 authors in total, equal division.
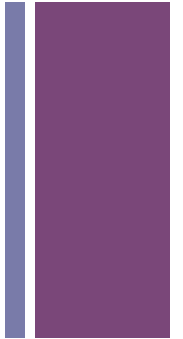
Program (morning)

- 8:50-9:00: Introduction

- 9:00-10:00: Keynote: Pamela Zave

- 10:00-10:30: Session 1

- 10:30-11:00: Coffee break

- 11:00-12:45: Session 2
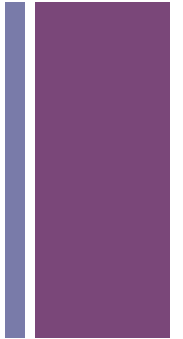
- 12:45-14:00: Lunch

Program (afternoon)
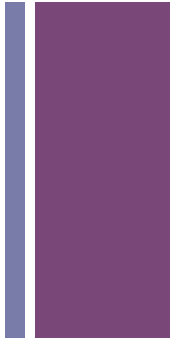
- 14:00-15:00: Keynote: Don Batory

- 15:00-15:30: Session 3

- 15:30-16:00: Tea break

- 16:00-16:30: Session 4

- 16:30-17:30: Panel discussion

Session 1

- *Pamela Zave (AT&T Research).* "How to Make Chord Correct" **(keynote)**

- *Ben Di Vito*. "Deductive Evaluation: Formal Code Analysis with Low User Burden"

Session 2

- *Néstor Cataño, Víctor Rivera and Sukriti Bhattacharya*. "Undertaking the Tokeneer Challenge in Event-B".

- *Shigeki Hagihara, Atsushi Ueno, Takashi Tomita, Masaya Shimakawa and Naoki Yonezaki*. "Simple Synthesis of Reactive Systems with Tolerance for Unexpected Environmental Behavior"

- *Francesco Mercaldo, Vittoria Nardone, Antonella Santone and Corrado Aaron Visaggio*. "Download Malware? No, thanks. How Formal Methods can Block Update Attacks"

- *Shaoying Liu*. "Validating Formal Specifications using Testing-Based Specification Animation"

+ Session 3
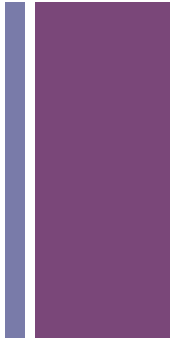
- *Don Batory (University of Texas at Austin): "*Teaching Modeling and Variability in Software Design and its Importance to Science" **(keynote)**

- *Andreas Katis, Michael Whalen and Andrew Gacek*. "Towards Synthesis from Assume-Guarantee Contracts involving Infinite Theories: A Preliminary Report"
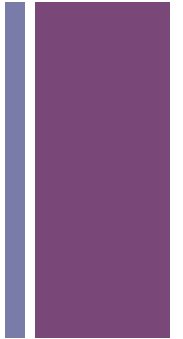
Session 4
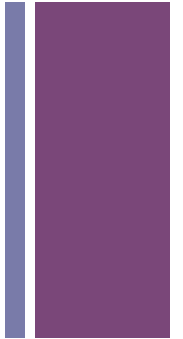
- *Mohammed Al-Mahfoudh, Ganesh Gopalakrishnan and Ryan Stutsman*. "Toward Rigorous Design of Domain-Specific Distributed Systems"
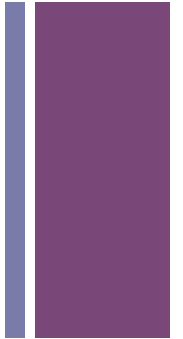
- **Panel discussion**

+ Panel discussion

Panel members:

- Don Batory

- Pamela Zave

- Ben Di Vito

- Nico Plat

+ Panel discussion

The main purpose of the panel is to initiate a discussion on the state of research on the applicability of formal methods (FM) in software engineering (SE) practice, typically in the industrial arena.

(Possible) topics:

- The application of FM in the context of certified systems.

- Can FMs reduce the need for testing, and if so: to what extend? This has always been a hope. Where is it happening now? Where might it happen in the future?

- Scalability. Some methods are inherently more scalable than others. Will software engineers only use the most scalable tools and techniques? What impact will that have on the others?

+ See you next year in Buenos Aires!