

**POLYTECHNIQUE
MONTREAL**

TECHNOLOGICAL
UNIVERSITY

INF[67]900E Lecture 6 – Conferences

Dr. Bentley Oakes

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Deliverables

Oct 3rd (today)

- Two page critical review of a paper
- Template and excellent examples on Moodle
- Evaluated on being **constructive, specific, professional, structured**

Oct 10th

- Evaluation of another student's review
- Performed through Moodle, few sentences per criteria above
- Evaluated on having **lessons present, lessons missing, general feedback**

Last Lecture

1. Presentations

This Lecture

1. About Conferences

<https://semtl.github.io/>

Meetings of the software engineering research community in Montreal, Canada

Next meeting: Oct 18th 14:00 – 17:00 at UdeM



Conferences - Purpose

Purpose?

Networking – too vague



Purpose

- 1) Others know who you are
- 2) You know who others are

Professionally and personally



- a) Msc, PhD, Post-doc, Prof
 - b) Topic, past/current research
 - c) Other communities
-
- i) Attitude
 - ii) Clothing
 - iii) Depth of discussion
 - iv) Friendly, funny, open to new ideas, quick, well-spoken

Purpose

“Who you are” is during the whole conference:

At presentations:



At social events:





Conference Timeline/Structure

Conference Timeline/Costs

- Paper submission – March 28
- Paper review
- Acceptance – June 17
- Camera-ready deadline – July 31
- Registration – Aug 23
- Book hotel, travel, obtain visas

- Conference – Sept 22-27

- After, read proceedings and follow up

↔ Round trip ▾ 1 ▾ Economy ▾

○ Montreal



Vienna

Student prices:

Full Conference (satellites + main)	Member	€620.00
	Non-member	€740.00

MODELS Program

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
	Tutorials				
	Workshops		MODELS Main Conference		
	SAM Conference				
	EDT Conference				
	Industry Day				
		Educators Symposium	ACM SRC		Farewell Get-together
		Doctoral Symposium			
	Satellite Reception	Ars Electronica Center (Guided Visit)	Welcome Reception	Gala Dinner	

Mon 23 Sep

Displayed time zone: **Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna** [change](#)

Room	9:00	30	10:00	30	11:00	30	12:00	30	13:00	30	14:00	30	15:00	30	16:00	30	17:00	30
Catering - Mensa							Catering Lunch											
Catering - Science Park Foyer			Catering Coffee Break												Catering Coffee Break			
Crash Bandicoot	SAM Conference Welcome & Keynote / Session Applications I				SAM Conference Session Applications II				SAM Conference Session Modelling Language Aspects				SAM Conference Session Modelling & AI					
HS 18	EDTConf Session 1: Keynote				EDTConf Session 2: Roadshow Pitches and Digital Twins in Application 1				EDTConf Session 3: DT Management and Evolution				EDTConf Session 4: Digital Twins in Application 2					
HS 19	Workshops LowCode - Session 1				Workshops LowCode - Session 2				Workshops LowCode - Session 3				Industry Days Industry Session 1					
T - Super Mario Bros	Tutorials Creating and Operationalizing Justification Models Using jPipe - Session 1				Tutorials Creating and Operationalizing Justification Models Using jPipe - Session 2				Tutorials EZR: How to build understandable models from data, simpler, smarter, faster - Session 1				Tutorials EZR: How to build understandable models from data, simpler, smarter, faster - Session 2					
T - The Legend of Zelda	Tutorials Modeling Variability and Its Transformation using the EASy-Producer tool suite - Session 1				Tutorials Modeling Variability and Its Transformation using the EASy-Producer tool suite - Session 2										Tutorials Live Co-Evolution of Modeling Languages, Tools and Models in the Cloud			

Mon 23 Sep

Displayed time zone: **Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna** [change](#)

09:00 - 10:30 Session 1: Keynote at **HS 18**

Chair(s): **Loek Cleophas** Eindhoven University of Technology (TU/e) and Stellenbosch University (SU), **Judith Michael** RWTH Aachen University,

09:00 20m ☆ **Conference opening**

Day opening

G: Loek Cleophas Eindhoven University of Technology (TU/e) and Stellenbosch University (SU), **G:** Judith Michael RWTH Aachen University, **G:** And

09:20 70m ☆ **EDTconf Keynote: ESA Digital Twin Earth**

Keynote

K: Nicolaus Hanowski European Space Agency (ESA)

11:00 - 12:30 Session 2: Roadshow Pitches and Digital Twins in Application 1 at **HS 18**

Chair(s): **Andreas Wortmann** University of Stuttgart

11:00 20m ☆ **Digital Twin Roadshow Pitches Day 1**

Talk

D: David Dietrich University of Stuttgart, **D:** Ion Barosan , **D:** Christer Neimöck

11:26 20m ☆ **A Digital Twin System for Oil And Gas Industry: A Use Case on Mooring Lines Integrity Monitoring**

Paper

Vinicius Kreischer de Almeida National Laboratory of Scientific Computing, Douglas Ericson de Oliveira National Laboratory of Scientific Computing, Universidade de São Paulo, Fabio Levy Siqueira Universidade de São Paulo, Anna Helena Reali Costa Universidade de São Paulo, Edson Satosh Rio, Isabela G. Siqueira Petrobras, Rodrigo A. Barreira Petrobras, Ismael H. F. dos Santos Petrobras, Carlos Cardoso National Energy Research Institute of São Carlos

11:48 20m ☆ **A MBSE approach for Virtual Verification & Validation of Systems with Digital Twins**

Paper

Rene Honcak ZF Friedrichshafen AG, Ana Wooley University of Alabama in Huntsville

12:10 20m ☆ **An Architecture for the Integration of Product and Production Digital Twins in the Automotive Industry**

Paper

Ryno Visser University of Stellenbosch, South Africa, Anton Basson Stellenbosch University, Karel Kruger University of Stellenbosch, South Africa

☆ Towards Ontological Service-Driven Engineering of Digital Twins

The systematic engineering of Digital Twins

NOMINATED FOR BEST SHORT & TOOL PAPER

EDTCONF BEST SHORT & TOOL PAPER

(DTs) requires the establishment of clear methodologies supported by intelligent tooling. We propose an approach to guide the user in the creation and deployment of services for DTs utilizing ontologies and workflows. In our approach, the user selects a desired DT service from an array of options. This selection is then used to suggest a) enablers and models to place in the DT, and b) development and deployment workflows for the DT service. The aim is provide DT engineering guidance to assist non-software engineering experts to develop DT services more rapidly with less effort. We describe our initial work on applying this approach to a derived version of an industrial wind turbine generator case study, utilizing openCAESAR for ontology definition and enacting the workflows with Jupyter notebooks.

[DOI](#) [Pre-print](#)



Bentley Oakes
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EDTconf
International Conference on
Engineering Digital Twins

Best Short/Tool Paper Award
EDTconf 2024

**International Conference on
Engineering Digital Twins**

September 24, 2024

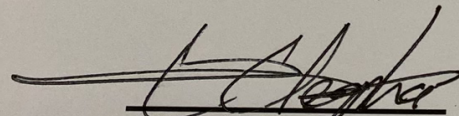
Linz, Austria

Presented to

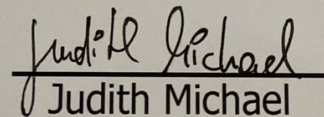
**Bentley Oakes, Claudio Gomes, Eduard Kamburjan,
Giuseppe Abbiati, Elif Ecem Bas, Sebastian Engelsgaard**

For

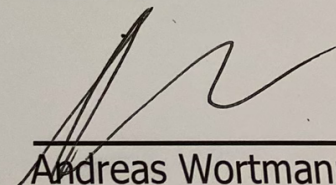
**"Towards Ontological Service-Driven
Engineering of Digital Twins"**



Loek Cleophas
General / PC Chair



Judith Michael
General / PC Chair



Andreas Wortmann
General / PC Chair

Social Events



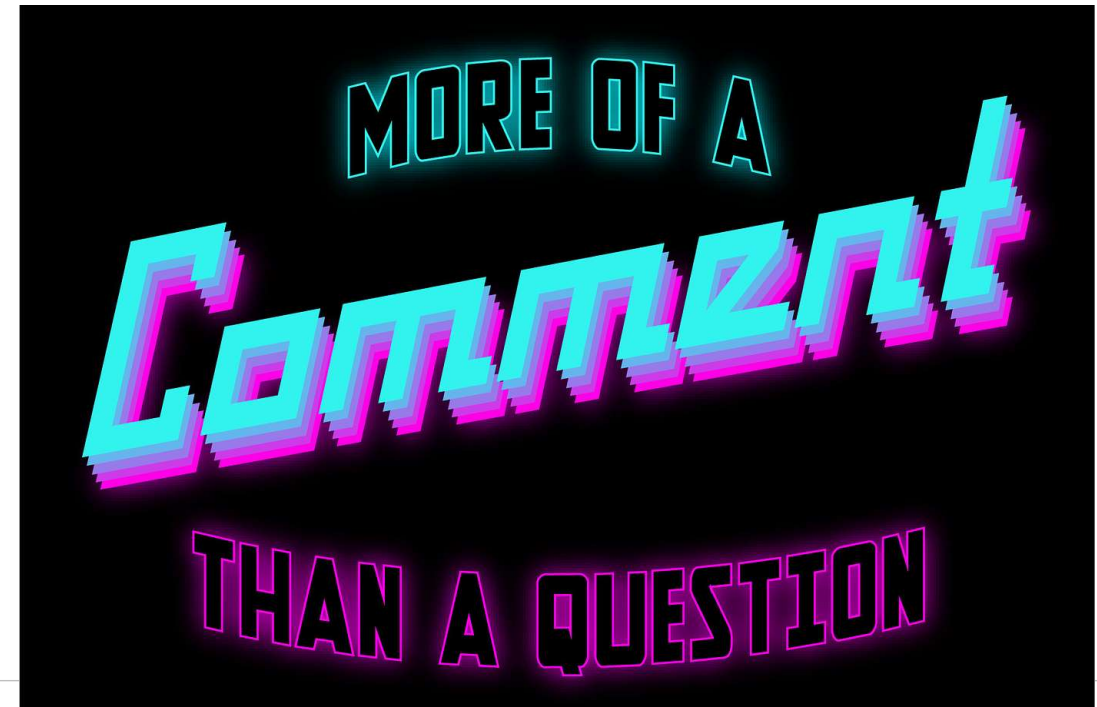
Two receptions, guided tour of museum, gala dinner



What Do You Do?

Attend Talks

- Pick relevant talks
 - Can't make them all, read proceedings after and talk to presenter
 - If nothing interesting, chance to learn/observe
-
- Be respectful during talks
 - No noise/talking
 - Try to stay off phone/laptop
 - Be very selective with questions



Attend Talks

- Note what the audience is doing
 - Everyone is exhausted (jet-lag, hotel beds, conference food, late nights)
 - Distracted
- This is your audience!
 - Have to be engaging during your presentation



Session Chair

- Person who runs the session (group of talks)
- Responsibilities:
 - Introduces session
 - Introduces speakers (name, institution, title of presentation)
 - Keeps speaker on time
 - Picks audience questions
 - Asks Qs if none (& read paper)
 - Keeps Q/A on time
- Easy to do, high visibility for you



Talk to Others

- Usually, students talk to other students
- Try to interact with different groups
 - Always sit for lunch with someone you don't know
- Talk about:
 - Where are you from? Institution, homeland
 - What topic are you working on?
 - What are you presenting or attending?



Important – Be Professional

Being Professional

Very important to remember: **at all times, you represent Polytechnique, your supervisor, and yourself**



Being in a Community

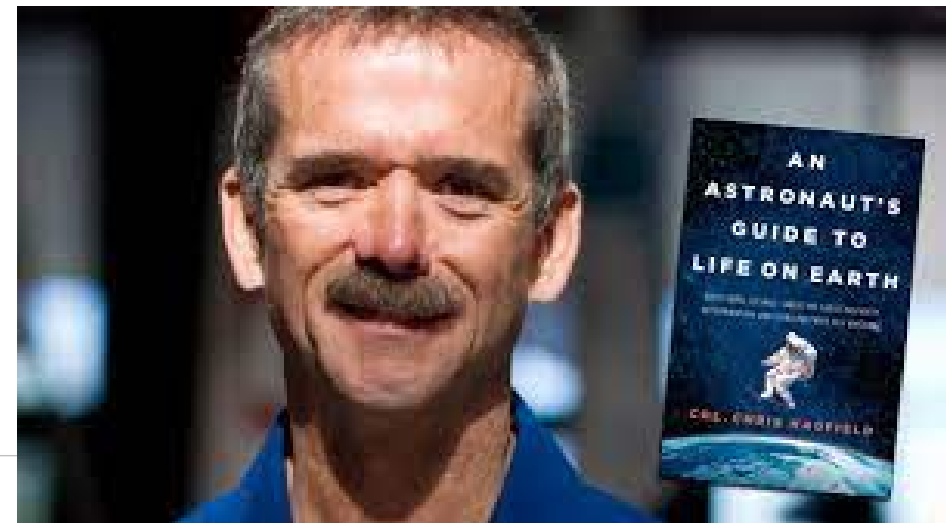
You will see same people for decades

- In discussions, in audience, co-authors, reviewers, judges for awards
- Be a good person in the community
 - “Yeah, I know X. They’re good.”



Be a Zero

- “Over the years, I’ve realised that in any new situation, whether it involves an elevator or a rocket ship, you will almost certainly be viewed in one of three ways. As a minus one: actively harmful, someone who creates problems. Or as a zero: your impact is neutral and doesn’t tip the balance one way or the other. Or you’ll be seen as a plus one: someone who actively adds value.”
- Do you agree?
- Should you be a zero at a conference?



Don't be a -1

- Multiple social events, many with unlimited alcohol
- Diverse cultures/ways of communicating/young students
- High potential for trouble

Be careful with drinking and jokes

Conferences are work events!



Consequences of Unacceptable Behavior

If a participant in an ACM activity engages in prohibited behavior, ACM reserves the right to take any action ACM deems appropriate. ACM reserves the right to:

- remove an individual from any ACM activity without warning or refund;
- prohibit an individual from participating in future ACM activities, including publishing in ACM publications;



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POLY MTL 150 YEARS

Conferences are Fun

Chance to Interact and Travel

Conferences are a chance to meet and discuss with many others

Challenges and solutions in your field
Until the early morning...



My colleagues at MODELS:

- Johan from Sweden/Volvo
- Hungarian graph group
- German/Austrian modellers
- McMaster/ETS/UdeM/McGill
- U. Aarhus, U. Antwerp, Stellenbosch U.

Lab Session

- Let's look at the course calendar and plan out the lectures
 - Special topics, guest lectures
- Then, for your conference, plan:
 - Session chairs, order of presenters, laptop switching