

# Octave Conference

Mar 20-22, 2017

A. Latina, J. Evans (IT), M. Gaillard (IT)

# What is Octave

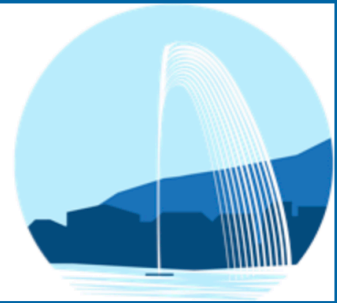
- GNU Octave is a free-software scientific programming language with a powerful mathematics-oriented syntax that is largely compatible with Matlab. It includes built-in plotting and visualization tools and can run in GUI mode, as a command-line application, or invoked as part of a shell script. Octave runs on a wide variety of systems, including GNU/Linux, macOS, BSD, and Windows.
- GNU Octave development began in 1992. Now, 25 years later, the project is more active than ever before. This talk will touch on the history of the project, significant recent developments, and plans for the future.

About the author: John W. Eaton is the original author and current maintainer of GNU Octave. Although trained as a chemical engineer, his primary professional interests are software development and free software.



# OctConf 2017

March 20-22  
CERN, Geneva, Switzerland



## Octave Conference 2017

20-22 March 2017  
CERN  
Europe/Zurich timezone

- Overview
- Call for Abstracts
- Timetable
- Contribution List
- My Conference
- My Contributions
- Book of Abstracts
- Registration
- Participant List**
- Group Photos

### Participant List

86 participants

Affiliation	First Name	Last Name
	Andreas	Weber
	Arturs	Ivanovs
	Clare	Saliba
	Dorota	Jelen
	Elisa	Frison

### Support & Info

info-octconf2017@cern.ch

Finally, about 30 participants showed up

Very motivated and competent community

- Physicists, engineers, biologists, mathematicians, a chemist
- Mostly from Academia and Private Sector

Several very interesting talks

Several very interesting discussions

- About programming
- About numerical computations
- About computational electromagnetism
- About open-source

Indico:

<https://indico.cern.ch/event/OctConf2017>

OctWiki:

[http://wiki.octave.org/OctConf\\_2017](http://wiki.octave.org/OctConf_2017)

Time	Monday (General GNU Octave day)	Tuesday (GNU Octave Packages day)	Wednesday (Libre and Open Source Software day)
9:00-9:30	Registration - IT Amphitheatre Coffee Area, CERN	GSoC project: Exponential Integrators (Chiara Segala)	Unconference
9:30-9:40	Welcome to CERN and Conference info	SOCIS project: Improve iterative methods for sparse linear systems (Cristiano Dorigo)	
9:40-10:10	Octave for N dimensions and microscope image processing (Carné Draug / David Miguel Susano Pinto)		Discussion and Coffee
10:10-10:30	Octave for Particle Accelerator Performance Optimization (Andrea Latina)		
10:30-11:00	Coffee		
11:00-11:30	<a href="#">publish</a> your code with Octave (Kai T. Ohlhus)	Support of free software in public institutions: the KiCad case (Javier Serrano)	Visit to CERN sites
11:30-12:00	Open slot	KiCad demo (Tomasz Wlostowski)	
12:00-12:45	Discussion and Group Photo	GSoC project: ode15(i,s) and The future of the Neural Network package (Francesco Faccio)	
12:45-14:00	Lunch	Lunch	Lunch
14:00-14:30	25 Years of Octave: Recent Developments and Future Directions (John W. Eaton)	Technical overview of user code parallelization (Olaf Till)	Unconference
14:30-15:00		8/16-bit simulation with GNU Octave (Andreas Stahel)	
15:00-15:30	Open Slot	Current Status of Octave Forge (Oliver Heimlich)	
15:30-16:00	Coffee	Coffee	Coffee
16:00-17:30	Code Sprint	Code Sprint	Organization of OctConf2018, Closing, and Farewell
17:30-18:30			
19:30-21:30	Fondue night		

# Group Photo



Monday at noon. Many participants arrived in the afternoon...