Octave Conference 2017
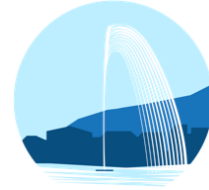
OctConf 2017

March 20-22
CERN, Geneva, Switzerland

Report of Contributions

Contribution ID: **1**　　　　　　　　　　　　　　　　　Type: **not specified**

Welcome to CERN

Monday 20 March 2017 09:30 (5 minutes)

Author:　HEMMER, Frederic (CERN)

Presenter:　HEMMER, Frederic (CERN)

Session Classification:　Welcome to CERN

Contribution ID: **2**   Type: **not specified**

Conference info

Monday 20 March 2017 09:35 (5 minutes)

Authors: LATINA, Andrea (CERN);   EVANS, John (CERN)

Presenters: LATINA, Andrea (CERN);   EVANS, John (CERN)

Session Classification: Welcome to CERN

Contribution ID: **3**   Type: **not specified**

Octave for N dimensions and microscope image processing

Monday 20 March 2017 09:40 (30 minutes)

Author: DRAUG, Carnë

Presenter: DRAUG, Carnë

Session Classification: Applications

Contribution ID: 4　　　　　　　　　　　　　　　　Type: **not specified**

Octave for Particle Accelerator Performance Optimization

Monday 20 March 2017 10:10 (20 minutes)

Author: LATINA, Andrea (CERN)

Presenter: LATINA, Andrea (CERN)

Session Classification: Applications

Contribution ID: **5**

Type: **not specified**

Publish your code with Octave

Monday 20 March 2017 11:00 (30 minutes)

Author: OHLHUS, Kai Torben

Presenter: OHLHUS, Kai Torben

Session Classification: Applications

Contribution ID: **6**   Type: **not specified**

Discussion

Monday 20 March 2017 11:30 (1 hour)

Session Classification: Applications

Contribution ID: **7**   Type: **not specified**

25 Years of Octave: Recent Developments and Future Directions

Monday 20 March 2017 14:00 (1 hour)

GNU Octave (octave.org) 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.

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.

Author: EATON, John W.

Presenter: EATON, John W.

Session Classification: CERN Open Session

Contribution ID: **8** Type: **not specified**

MOOC: Matlab and Octave for beginners

Author: DEPARIS, Simone (EPFL)

Presenter: DEPARIS, Simone (EPFL)

Session Classification: CERN Open Session

Contribution ID: **9** Type: **not specified**

GSoC project: Exponential Integrators

Tuesday 21 March 2017 09:00 (30 minutes)

Author: SEGALA, Chiara

Presenter: SEGALA, Chiara

Session Classification: Projects

Contribution ID: **10**   Type: **not specified**

SOCIS project: Improve iterative methods for sparse linear systems

Tuesday 21 March 2017 09:30 (30 minutes)

Author: DORIGO, Cristiano

Presenter: DORIGO, Cristiano

Session Classification: Projects

Contribution ID: **11**   Type: **not specified**

Discussion

Tuesday 21 March 2017 10:00 (30 minutes)

Session Classification: Projects

Contribution ID: **12**   Type: **not specified**

Support of free software in public institutions: the KiCad case

Tuesday 21 March 2017 11:00 (1 hour)

KiCad [1] is a tool to help electronics designers develop Printed Circuit Boards (PCB).

CERN's BE-CO-HT section has been contributing to its development since 2011 [2]. These efforts are framed in the context of CERN's activities regarding Open Source Hardware (OSHW), and are meant to provide an environment where design files for electronics can be shared in an efficient way, without the hurdles imposed by the use of proprietary formats.

The talk will start by providing some context about OSHW and the importance of using Free Software tools for sharing design files. We will then move on to a short KiCad tutorial, and finish with some considerations about the role public institutions can play in developing and fostering the use of Free Software, and whether some of the KiCad experience can apply in other contexts.

[1] http://kicad-pcb.org/
[2] http://www.ohwr.org/projects/cern-kicad/wiki

Author: SERRANO, Javier (CERN)

Presenter: SERRANO, Javier (CERN)

Session Classification: Projects

Contribution ID: **13**　　　　　　　　　　　　　　　　Type: **not specified**

KiCad demo

Tuesday 21 March 2017 11:25 (20 minutes)

Author:　WLOSTOWSKI, Tomasz (CERN)

Presenter:　WLOSTOWSKI, Tomasz (CERN)

Session Classification:　Projects

Contribution ID: **14**

Type: **not specified**

KiCad: questions and discussion

Tuesday 21 March 2017 11:45 (15 minutes)

Session Classification: Projects

Contribution ID: **15** Type: **not specified**

GSoC project: ode15{i,s}

Tuesday 21 March 2017 12:00 (20 minutes)

Author: FACCIO, Francesco

Presenter: FACCIO, Francesco

Session Classification: Projects

Contribution ID: **16**   Type: **not specified**

The future of the Neural Network package

Tuesday 21 March 2017 12:20 (15 minutes)

Author: FACCIO, Francesco

Presenter: FACCIO, Francesco

Session Classification: Projects

Contribution ID: **17**　　　　　　　　　　　　　　　　Type: **not specified**

Technical overview of user code parallelization

Tuesday 21 March 2017 14:00 (30 minutes)

Author:　TILL, Olaf

Presenter:　TILL, Olaf

Session Classification:　Projects

Contribution ID: **18** Type: **not specified**

8/16-bit simulation with GNU Octave

Tuesday 21 March 2017 14:30 (30 minutes)

Author: STAHEL, Andreas

Presenter: STAHEL, Andreas

Session Classification: Projects

Contribution ID: **19**
Type: **not specified**

Status of Octave-Forge

Tuesday 21 March 2017 15:00 (30 minutes)

Author: HEIMLICH, Oliver

Presenter: HEIMLICH, Oliver

Session Classification: Projects