



Marie Lhande-Pincemin



Karim Azoum



CCFR

CENTRE
DE COMPÉTENCE
HPC.HPDA.IA

Explore and visualize massive datasets with ParaView



François Mazen

Assistant Director for the
Scientific Visualization team





The CCFR logo is displayed in large gold letters, followed by 'CENTRE DE COMPÉTENCE HPC.HPDA.IA'. To the right is the Teratec logo. Below these are logos for Inria, CERFACS, CRIANN, and the HPC Center ROMEO (Centre de Calcul Régional). At the bottom of this section is the MESoNET logo and a map of France with blue dots representing mesocentres. Text below the map reads: 'With the participation of MesoNET, which involves the 21 mesocentres'.

HPC- HPDA-IA-Quantum Computing Industry, Academia, Public Administration

- Support on the use of this technologies (POC, projects...)
- Trainings
- Events
- Marketplace (Hardware, software, consulting, Access to HPC resources, trainings, events, jobs)

www.cc-fr.eu/formations

In 2023 we realised 20 free trainings from 1 day to 5 days

- **2 in simulation**
- **9 in AI (ML and DL)**
- **6 in HPC**
- **3 in Quantum Computing**

>350 persons participated to our trainings, 15 from Europe

- **277 from academia**
- **65 from industry**
- **9 from public administration**

**The training
program for 2024
is currently being
finalized**



www.cc-tr.eu/formations



[CC-FR Newsletter](#)

Webinars in 2023: www.cc-fr.eu/actualites

2023

6 Webinars > 340 Participants

The image displays four webinar cards arranged horizontally. Each card is enclosed in a light blue rounded rectangle with a small flag icon on the right side. The first card is for ParaView, the second for GuixHPC, and the third and fourth for OpenFOAM. Each card includes a title, a brief description, a date and time, a registration status, a speaker's name and title, and logos of sponsors or partners.

- ParaView:** Explorez et visualisez vos données massives avec ParaView. Mardi 7 novembre 2023, 11h-12h. Inscription obligatoire. Speaker: François M... (Chairman | CFD Manager). Sponsors: Kitware.
- GuixHPC:** Workshop on Reproducible Software Environments for Research and HPC. 8 to 10 November 2023, Montpellier (SupAgro). Program & Registration. Sponsors: EURO², CCFR.
- OpenFOAM (1):** OpenFOAM la CFD open source accessible à tous ? Mardi 14 novembre 2023, 11h-13h. Inscription obligatoire. Speaker: Alexis Lapouille (Chairman | CFD Manager), Yann Reppelle (Responsible Formation). Sponsor: ACE Engineering.
- OpenFOAM (2):** OpenFOAM, the open source CFD alternative ? 28 november 2023, 11h-13h. Registration required. Speaker: Alexis Lapouille (Chairman | CFD Manager), Yann Reppelle (Training manager). Sponsor: ACE Engineering.

Visualisation - Reproducible software - CFD

Webinars in 2024: www.cc-fr.eu/actualites

QUANTIQUE
Calcul Quantique :
De la recherche à l'industrie
Jeudi 7 décembre 2023
11h-13h
Inscription obligatoire

Félix Givois
Genci
Daniel Vert
Systematic

ACE OF AIRCRAFT
Flow simulation for the drone
and the light aircraft industries
December 12, 2023: 14h-16h
Inscription obligatoire

Yan Le Gallou
Responsible Formation
Frédéric Mauguière
ROMEO

2023

6 Webinars >340 Participants

Quantum Computing - CFD

Webinars in 2024: www.cc-fr.eu/actualites

2024

>20 Webinars planned

OpenFOAM
HPC Platform for Extended OpenFOAM Performance: A Comparative Analysis
Tuesday 23 January 2024
11h-12h
Registration needed
Sam Zakrzewski
Senior Solutions Architect
Guillaume Trainar
Sales Director
rescale

ParaView
Explore and Visualize massive datasets with ParaView
Tuesday 30 January 2024
11h-12h
François Mazen,
Assistant Director for the Scientific Visualization team
Kitware

CCFR & EURO
CENTRE DE COMPÉTENCE HPC.HPDA.IA NETHERLANDS

Quantum Computing: From research to Industry
27-02-2024, 10h-12h

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Jean-Baptiste Latre
Qualitative Computing

Olivier Hess
EVIDEN

Félix Givois
GENCI

EURO NETHERLANDS

David Maier
SURF

Victor Land
DuSoft
Research Center for Quantum Software

Daan Kuitenbrouwer
Delft Circuits
Hardware for quantum engineers

Cloud computing - Visualisation - Quantum Computing

Webinars in 2024: www.cc-fr.eu/actualites

- 25/01/2024 -10h : Présentation de la Gray Scott School
- 01/02/2024 -10h : Architecture CPU
- 08/02/2024 -10h : Précision des calculs
- 15/02/2024 -10h : Profilage mémoire (MALT, NUMAPROF)
- 22/02/2024 -10h : Calcul en C++ 17/20/23
- 29/02/2024 -10h : Le langage Rust
- 07/03/2024 -10h : Bibliothèque de calcul Eve en C++ 20
- 14/03/2024 -10h : Architecture GPU
- 21/03/2024 -10h : Fortran (langage, OpenACC)
- 28/03/2024-10h : Calculer sur GPU en C++ 20 avec NVC++ et CUDA
- 04/04/2024 -10h : Calculer avec Sycl en C++ 20 sur CPU et GPU
- 11/04/2024 -10h : Calculer avec Numpy en Python
- 18/04/2024 -10h : Calculer avec Rust sur CPU et GPU
- 25/04/2024 -10h : Calculer sur CPU et GPU en Fortran avec NVfortran et OpenACC
- 16/05/2024 -10h : Python sur GPU : cunumerics / Legate / Tensorflow

■ ■
**Programming and
optimization on
heterogeneous
architecture**

**Webinars link to
the Gray Scott
School**

HPC School

GRAY SCOTT SCHOOL

2^E EDITION: 1-12 July 2024



HPC SCHOOL FREE OF CHARGES!

PROGRAMMING AND OPTIMIZATION ON
HETEROGENEOUS ARCHITECTURES



organisé par :



avec la participation de :

130 users, 50 organisations, 660 service offerings

Join the CC-FR HPC Ecosystem: www.cc-fr.eu/inscription

Technoproviders

End Users

- Create your user account
- Create the account of your organisation
- Register offers:
 - ✓ Hardware,
 - ✓ Software,
 - ✓ Consulting,
 - ✓ Access to computing resources
 - ✓ Trainings, events, jobs



Marketplace CC-FR services
Found experts, organization,
targeted solution

- ✓ User profiles
- ✓ Organisation profiles
- ✓ Services: Hardware, software, consulting,
- ✓ Access to computing resources
- ✓ Trainings, events, jobs

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**Quantum Computing:
From research to Industry**

27-02-2024, 10h-12h





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GENCI
Le circuit infini au service de la connaissance



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QuSoft
Research Center for Quantum Software



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Delft Circuits
Hardware for quantum engineers

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with the participation of 21 Mesocentre:



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