

Session Program

Nov 4 – 5, 2025



FortranCon 2025

Sessions

Virtual, ZOOM

Tue, November 4

9:20 AM

Sessions: Tools

Session | **Location:** Virtual, ZOOM | **Convener:** Alfio Lazzaro

09:20 – 09:40 **Fortitude: A fast and friendly open-source linter for modern Fortran**

Speaker

Liam Pattinson

09:40 – 10:10

Codee: A Tool to Enhance Correctness, Modernization, Security, Portability and Optimization in Fortran

Speaker

Manuel Arenaz

10:10 – 10:30

Fortuno: Flexible & extensible object oriented Fortran unit testing framework for serial, MPI-parallel and coarray-parallel projects

Speaker

Dr Bálint Aradi

10:30 AM

10:50 AM

Sessions: Coding

Session | **Location:** Virtual, ZOOM | **Convener:** Austen Rainer

10:50 – 11:10 **Simulating the Universe: My wish list after 20 years of Fortran development**

Speaker

Daniel Price

11:10 – 11:30 **Modern Fortran for Fluid-Structure Simulations of Cilia and Particles**

Speaker

Divyaprakash Divyaprakash

11:30 – 12:00

Modernizing OpenRadioss: A Journey Through Three Decades of Fortran Evolution

Speaker

Mr Olivier Wienholtz

12:00 PM

6:00 PM

Sessions: Fortran and Python

Session | **Location:** Virtual, ZOOM | **Convener:** Dr Harvey Richardson

18:00 – 18:30 **Gfort2py: A simple way to call Fortran from Python**

Speaker

Robert Farmer

18:30 – 19:00

Interfacing Fortran and Python for ODE Modeling: A Performance Study on Ethylene Dichloride Cracking

7:00 PM

7:20 PM

8:50 PM

Speakers

Helianildes Silva Ferreira, Rodrigo Silva Ferreira

Sessions: Coding**Session** | **Location:** Virtual, ZOOM | **Convener:** Brad Richardson

19:20 – 19:50

Precision-Agnostic BLAS/LAPACK and a Modern Linear Algebra API for the Fortran Standard Library**Speaker**

Federico Perini

19:50 – 20:20

Using Modern Fortran OOP for the development of an open-source extensible library for thermodynamic calculations**Speaker**

Federico Ezequiel Benelli

20:20 – 20:50

Experiences with Idiomatic Vibe Coding**Speaker**

Dr Damian Rouson

Wed, November 5

9:10 AM

Sessions: Coding

Session | **Location:** Virtual, ZOOM | **Convener:** Arjen Markus

09:10 – 09:40 **From Fortran to Fortran: The Porting Guide**

Speaker

Igor Gerasimov

09:40 – 10:00 **Practical performance benefits of the Fortran PURE keyword in a CFD solver**

Speaker

Dr Paul Bartholomew

10:00 – 10:20 **State of the FOSS (Fortran Open Source Software)**

Speaker

David Cutting

10:20 AM

10:40 AM

Sessions: Compilers

Session | **Location:** Virtual, ZOOM

10:40 – 11:10 **Fortran, the OpenMP API, and AMD GPUs - Porting Applications for Performance**

Speaker

Michael Klemm

11:10 – 11:30 **Status of gfortran, the gcc fortran compiler**

Speaker

Paul Thomas

11:30 – 12:00 **Fortran - What are the options for accelerated computing?**

Speaker

Hans Pabst

12:00 PM

5:30 PM

Sessions: Coding

Session | **Location:** Virtual, ZOOM | **Convener:** Tiziano Müller

17:30 – 17:50 **Compile-time unit checking in Fortran with genunits**

Speaker

Ben Trettel

17:50 – 18:10

(Let's) make Fortran spatial again: Re-establishing Fortran as a language for spatial analysis

Speaker

Prof. Oscar Garcia-Cabrejo

18:10 – 18:30 **Parallel Monte Carlo and Machine Learning Tools for Fortran**

6:30 PM

Speaker

Prof. Amir Shahmoradi

6:50 PM

Sessions: Compilers**Session** | **Location:** Virtual, ZOOM | **Convener:** Dr John Reid

18:50 – 19:20

LFortran - Modern interactive LLVM-based Fortran compiler**Speakers**

Ondřej Čertík, Pranav Goswami

19:20 – 19:50

The Intel® Fortran Compiler Status Update November 2025**Speaker**

Mr Ronald Green

7:50 PM