9ᵀᴴ HEP C++ COURSE AND HANDS-ON TRAINING

16 — 20 OCTOBER 2023

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WELCOME

▸ Ninth edition of a C++ course and training

  ▸ Course split into "Essentials" (next spring '24) and "Advanced" (this course)

    ▸ Stay informed, register at https://indico.cern.ch/e/HepCppInfo

  ▸ We will record the morning lectures and post them on indico and CDS

  ▸ Lectures and training sessions on Monday, Wednesday and Friday

▸ Organised by volunteers from within the HEP community for HEP

OVERALL ORGANISATION

▸ Feedback is more than welcome

　　▸ Pre-training survey link sent to participants last week

　　▸ We'll send you a link to a post-training survey on Friday, please fill it in

▸ Communication tools

　　▸ Zoom room used for broadcasting the morning lectures

　　▸ Mattermost channel, interact with organisers, ask questions (register first)

MORNING LECTURES

▸ Mo, We, Fr, 9.00 - 12:00 CEST including a 15 minutes break

  ▸ Monday and Wednesday lecture in the IT Auditorium (31/3-004, this room)

  ▸ **Friday lecture in Building 40 (40/S2-C01 "Salle Curie")**

▸ The slides are available on the indico page

▸ Content is organised in smaller chapters (~ 15 minutes each)

  ▸ Please keep your questions until the end of a section

Monday	Wed	Friday
Recap (language basics & object orientation)	**Core Modern C++ 2** (lambda, STL, ranges, RAll, …)	**Concurrency**
Modern C++ 1 (constexpr, move semantics, …)	**Tools** (formatting, sanitizers, profiling, …)	**Expert C++** (3 way comparison, variadic templates, …)

AFTERNOON TRAININGS

▶ Monday, Wednesday, Friday @ 14.00 - 16.00 CEST for local participants

▶ A set of examples are provided at the end of the morning

▶ Trainings will happen in room 513/1-24

    ▶ We also have a second room available if needed

▶ Style "a la university lab", i.e. students work mostly on their own, ask mentors for help in case they have questions or get stuck
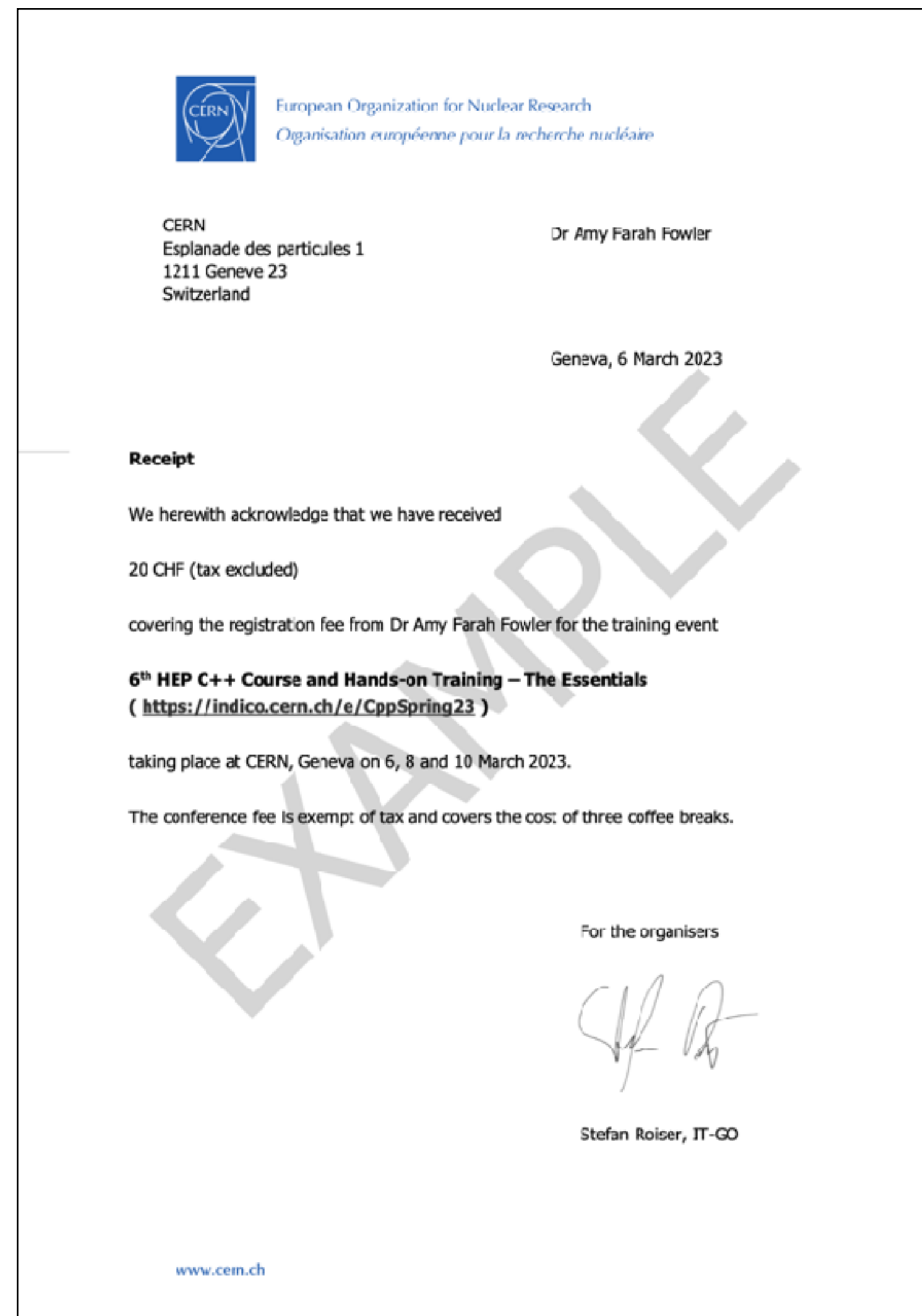
YOU ARE HERE

AFTERNOON TRAINING
BUILDING 513

FRIDAY MORNING LECTURE
BUILDING 40

ATTENDANCE CERTIFICATE AND PAYMENT RECEIPT

▸ If you want to receive an attendance certificate pls provide your name at

  ▸ https://docs.google.com/document/d/1VzDVlKwwxJPjhBlWbjJl9gkPWM1MnHqB6emBXhWWxGQ/edit?usp=sharing

▸ We will provide receipts for payments

  ▸ If you need a special address / change of the form pls drop me a mail with the details

MORE C++ COURSES

▸ Organised by the CERN training center (registration fees apply)

  ▸ Modern C++ – Expert Level, 27 – 30 Nov (zoom), register before 20 Nov

  ▸ More sessions will be added soon in the CERN learning hub

▸ HEP C++ courses organised by this team

  ▸ Next "Essentials course" ~ spring 2024

  ▸ Emails about upcoming HEP C++ courses will be sent to registrants @ https://indico.cern.ch/e/HepCppInfo

MANY THANKS TO ALL LECTURERS AND MENTORS OF THIS EVENT !!

Sebastien

Stephan

Laura

Attila

Gianluca