



Institut de radiophysique



Diana DALBAN

Meriem CHNIBA

IRA & CERN

COLLABORATION

on radiation protection awareness

EUTERP Workshop
10-12 April 2019
Qawra, Malta



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Introduction



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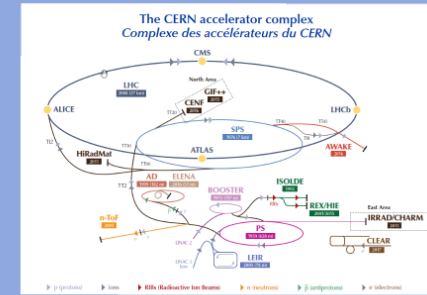
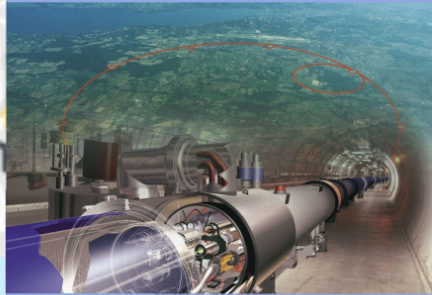
CERN : European Laboratory for Particle Physics

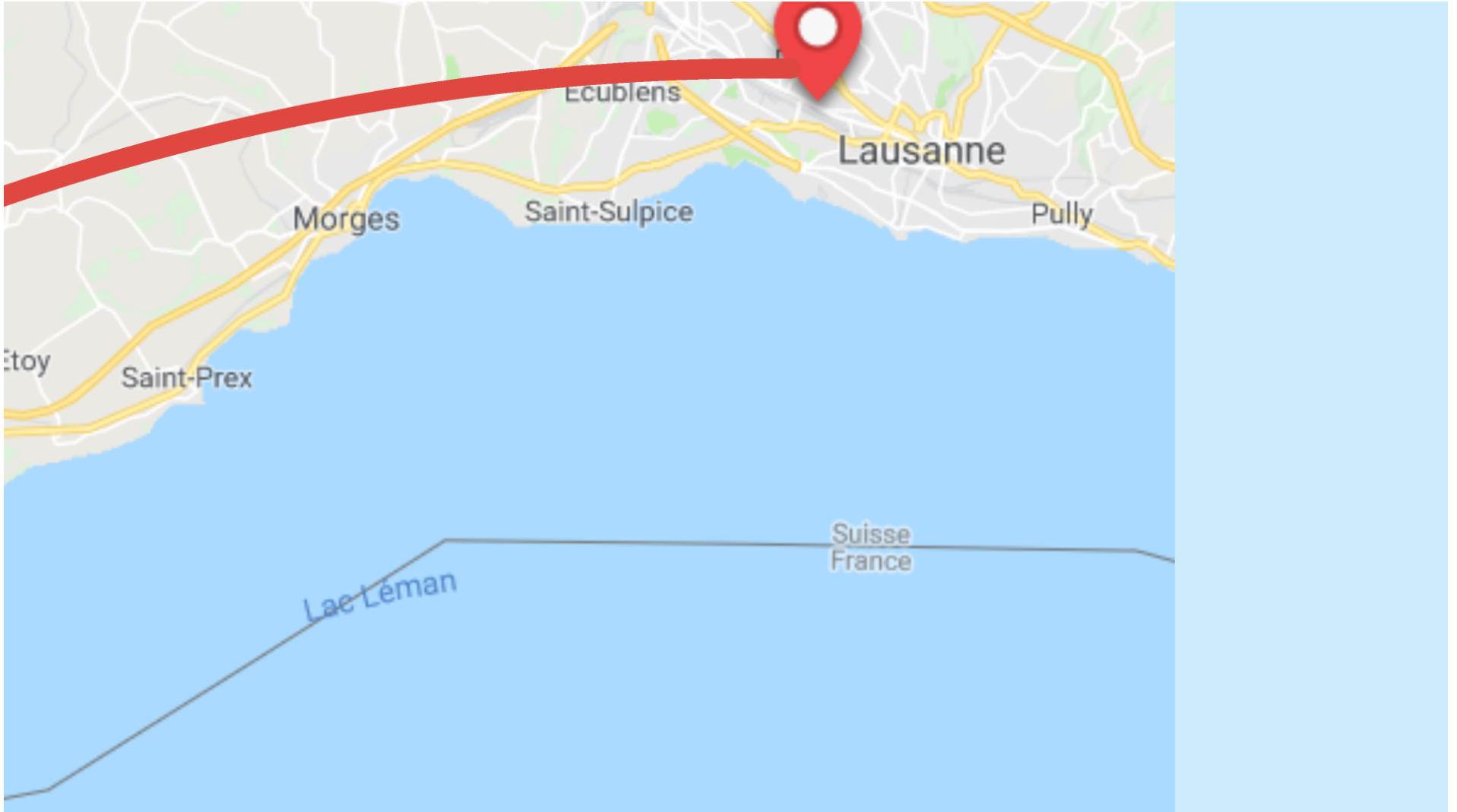
Mission : provide, perform, unite

Goals : Discovery, Innovation, Diversity, Inspiration and Education

- 15 000 Persons, all over the world
- 2 host states
- 2 official languages : EN, FR

Radiation Protection Group : 68 Staff Members







**IRA : Institute for RAdiation Physics
Lausanne University Hospital**

Mission: R&D programs: Ionizing radiation for medical application and RP

Radiation Protection Group : 18 Staff Members

- Dosimetry service (9500 customers)
- Radon measurements
- RP consulting
- Emergency intervention
- Research projects
- RP Training



Introduction





Common Projects



Common Projects

Collaboration



Common Projects

Collaboration

- External and internal dosimetry
- Activated material
- Detector development
- Consultancy



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- **Trainings**





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- **Trainings**

RP Training : 10 years of collaboration
IRA training expertise, experience, recognized courses

Different fields :

- Complementary experience
- Mutual enrichment





Common Projects

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- External and internal dosimetry
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- **Trainings**

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Trainings CERN-IRA

CERN : RP Training awareness



IRA : RP Training



RPE

RSSO

CERN

- 3 online courses - 40 000 trained people*
- 4 classroom courses - 9 000 trained people*



* since 2011

Facilities Access



Modular approach : Blended learning
> **Continuous improvement**



IRA

- Approved and recognized trainings by FOPH
- Swiss legislation revised in 2018
- Specific classroom courses



> Future : Blended learning

Trainings CERN-IRA

CERN : RP Training awareness



IRA : RP Training



RPE

RSSO

Radiation Protection Expert



- RPE [CERN] vs RPO [Europe]
- Goals and objectives defined in the Swiss Legislation
- 2008-2019: 11 sessions, 213 persons trained
(Max 24 p/session)
- 10 days Swiss part and 2.5 days specific CERN part
- Exam : practical + theoretical
- Legal Swiss texts: FR/IT/GER



Radiation Safety Support Officer



- CERN specific role > Part of their main work
- Goals and objectives defined with IRA
- 1 session/year
- 2016-2019 : 3 sessions , 45 persons trained
- 1 day IRA Trainers and 4 days CERN Trainers



Challenges

Large diversity of audience :
Different age, background, studies level, specialization,
experience, nationality, risk approach...

Adapted contents and practices

- Trainer adaptability
- Theoretical and practical parts combination/mixed group

→ Safety culture : wide environments and challenges

Different communities but complementary challenges



Synergies



Working Group ARRAD



RP association for french speakers

Members :

- Haute école de santé de Genève (HEdS-GE)
- Haute école de santé de Vaud (HESAV)
- Hôpital neuchatelois
- Hôpital du Valais
- Office fédéral de la santé publique (FOPH)
- CERN
- IRA

3 to 4 sessions per year

<http://arrad.ch/>



Conclusions

- Strong, enriching and rewarding collaboration
- Both partners benefit from their respective experience and help to face challenges
- Share methodologies, practices, expertise

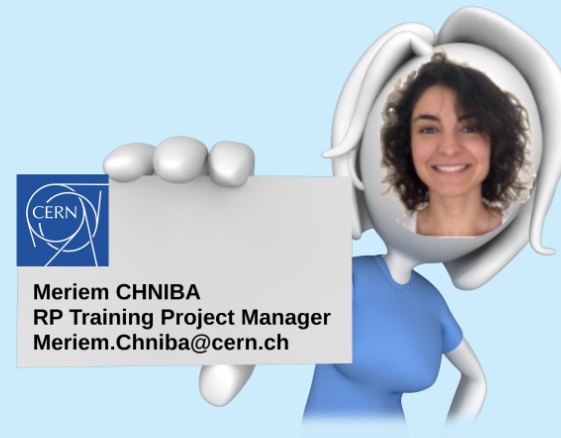
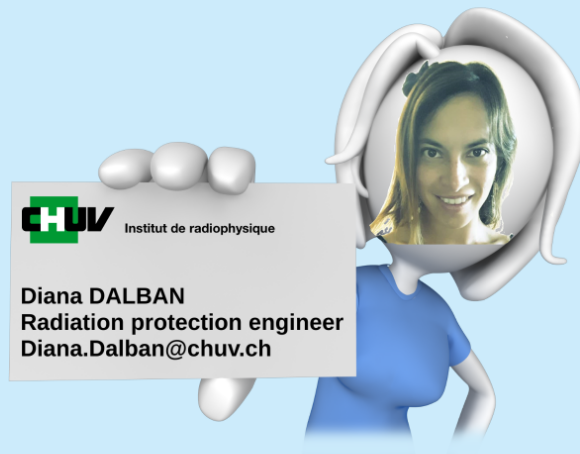
→ Creation of RP Training working group

**The whole is greater than the sum of its parts
JOIN US !**



Thank you for your attention

Questions?



<https://home.cern/>
<https://www.chuv.ch/ira>



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