

The logo for LINAC 14 Geneva, featuring the word 'LINAC' vertically on the left, a stylized white archway in the center, and the number '14' below it. Below the archway, the word 'GENEVA' is written horizontally.

LINAC
14
GENEVA

LINAC 14

27th Linear Accelerator Conference

Geneva, Switzerland, 1 - 5 September 2014

Introduction

M. Vretenar, LOC Chair



The Venue



Geneva International Conference Centre (CICG)

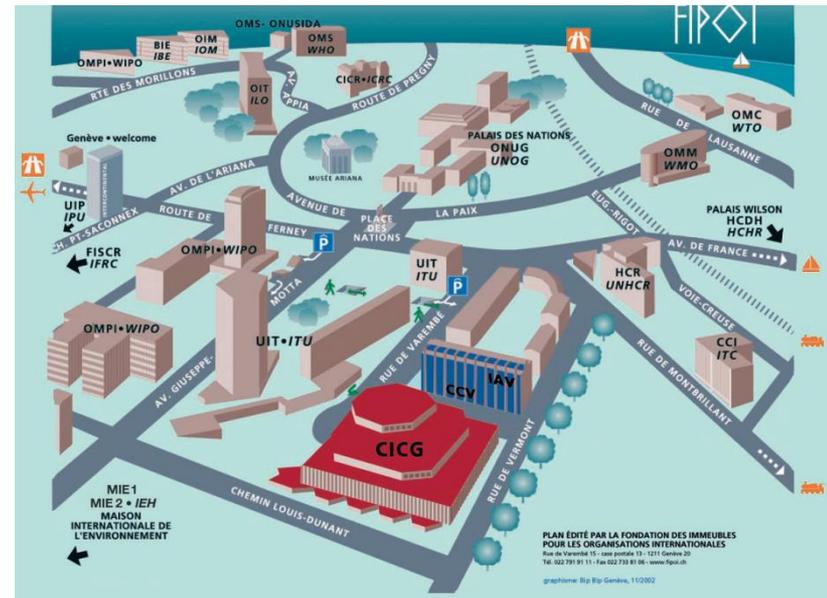
4 bus/tram lines nearby

➤ *Tram 15 or Bus 5 or Bus 8 to railway station & city centre*

➤ *Bus 11 + Tram 18 to CERN*

Geneva transport card free for guests of hotels

➤ *15 minute walk to station and centre*



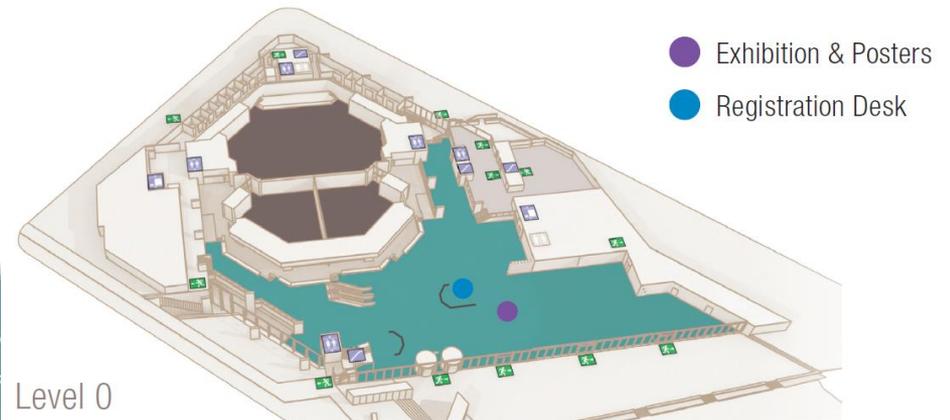
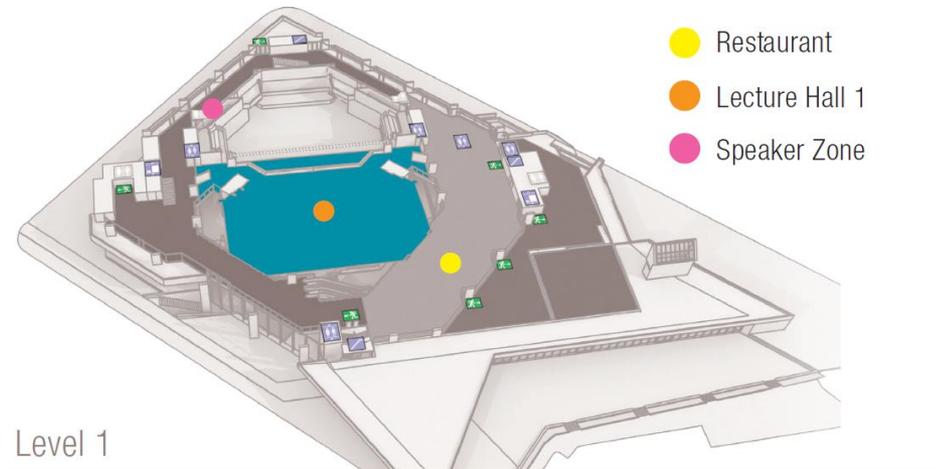
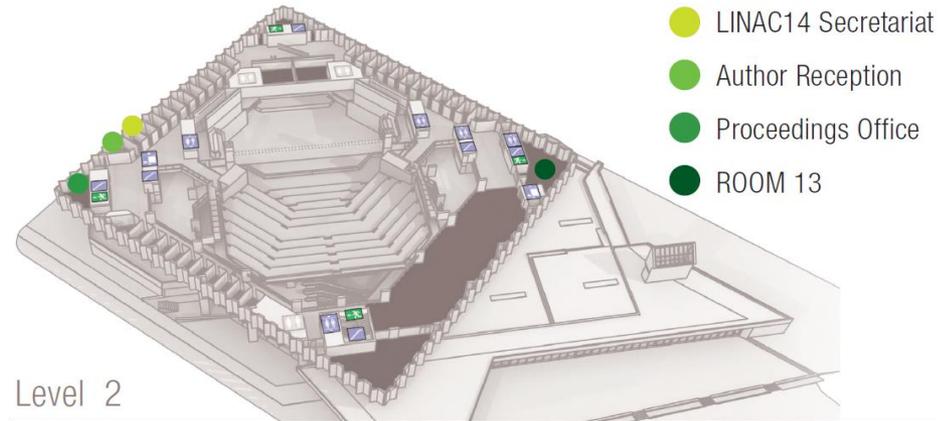
The Conference Centre

Level 0: Entrance, Registration,
Exhibition, Posters, Coffee breaks

Level 1: Lecture Hall (Room 1), Speakers' zone, Restaurant

Level 2: *Secretariat, Proceedings Office,*
Meeting rooms

Lunch is *included* in the Conference Package, at the CICG Restaurant Level 2
3 lunch tickets distributed with badge



Wi-Fi and Indico

Wireless internet is available to all participants in the CIGG Conference Centre

Username: **linac**

Password: **2014**

Presentations to the main sessions (oral posters excluded) will be loaded every day on the Indico site of the Conference

(<http://indico-jacow.cern.ch/>) and can be directly accessed from the Timetable: <http://indico-jacow.cern.ch/event/0/timetable/>



The area

Park
Promenade

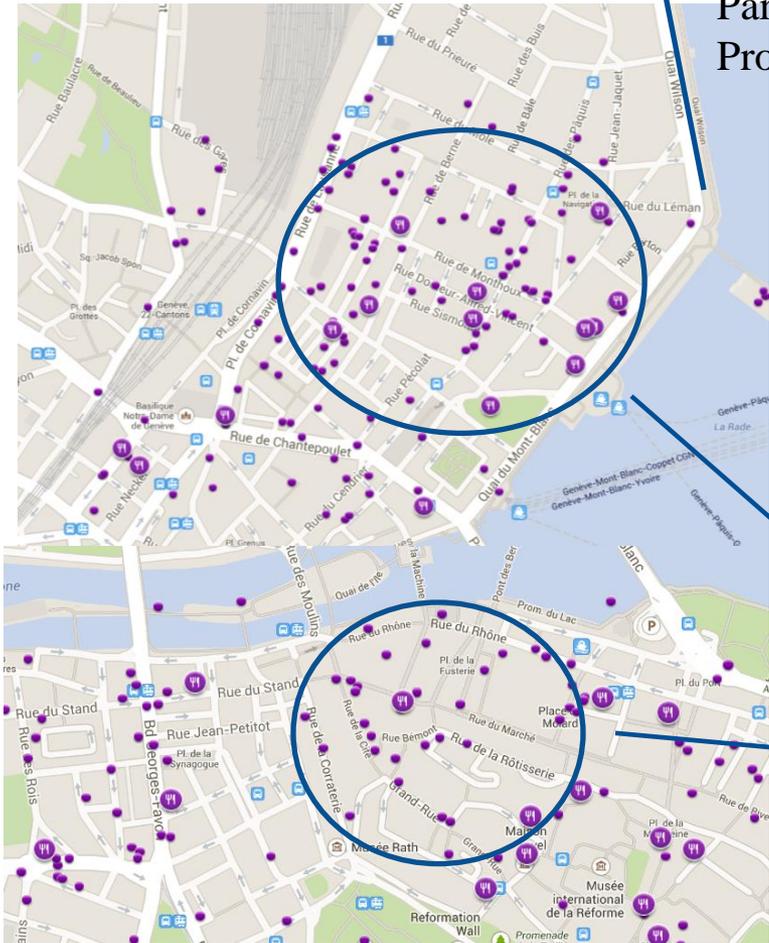
Tripadvisor lists 1'180 restaurants in Geneva!

About half are in 2 close-by districts:
Paquis/Cornavin and Old Town

Enjoy the Park promenade longing the lake!

Paquis / Cornavin

Old Town



The scientific program

Sessions will start at 8:30 each morning

You must complete the editing of your paper during the conference: if you have a red dot, you must contact the Proceedings Office and solve the issue if you want your paper to appear in the Proceedings!

For questions after the presentations, please use the microphones on the tables of the Lecture Hall when you are authorised by the chairperson.

Satellite Meeting (Room 13, 3rd Level):
Accelerating Science and Business Partnership

Monday, 1 Sept.		Tuesday, 2 Sept.		Wednesday, 3 Sept.		Thursday, 4 Sept.		Friday, 5 Sept.	
MO1	Chair: Roland Garoby	TU1	Chair: Yong Ho Chin	WE1	Chair: Robert Laxdal	TH1	Chair: Patrick Bertrand	FR1	Chair: Lars Groening
08:00	Registration	08:30	Status of Swiss FEL / Hans-Heinrich Braun	08:30	Construction and RF Conditioning of the Cell-Coupled Drift Tube Linac (CCDTL) for Linac4 at CERN / Alexey Tribendis	08:30	Cost Optimized Design of High Power Linacs / Mohammad Eshraqi	08:30	Demonstration of a Cascaded IREL / Erik Hemsing
09:00	Welcome	09:00	R&D Efforts for ERLs / Ralf Eichhorn	8:50	New Applications of High Gradient RF Linacs / Alexej Grudiev	09:00	Superconducting RF Development for FRIB at MSU / Kenji Saito	08:50	Challenges toward Attosecond and Zeptosecond XFELs / Takashi Tanaka
09:30	Linear Collider Studies / Steinar Stappes	09:30	The MAX IV Linac / Sara Thorin	9:10	New Xband and Above High Gradient Linacs / Sami Tantawi	09:30	Status of the HIE ISOLDE Linac / Walter Venturini Delsolano	09:10	RF Guns for FELs / Frank Stephan
10:00	Commissioning of the Low Energy Part of Linac4 / Alessandra Lombardi	09:50	The New LCLS-II Project Status and Challenges / John Galayda	09:30	Phase Locked Magnetrans for Accelerators / Amos Dexter	09:50	Superconducting Cavities and Cryomodules for Proton and Deuteron Linacs / Guillaume Devanz	09:30	Production of Energetic Ion Beams Using High Intensity Lasers / Zulfikar Najmudin
10:30	coffee break	10:10	High Power Industrial Accelerator ILU-14 for E-beam and X-ray Processing / Alexander Bryazgin	09:50	High Power RF Sources for the ESS RF Systems / Morten Jensen	10:10	An 800 MeV Superconducting Linac to Support Megawatt Proton Operations at Fermilab / Valeri Lebedev	09:50	The Muon Accelerator Program Research Effort / Mark Palmer
11:00	MO2 Chair: Yoshishige Yamazaki	10:30	coffee break	10:10	Low Level RF for SRF Accelerators / Julien Branlard	10:30	coffee break	10:10	AWAKE: Advanced Proton Driven Plasma Wakefield Acceleration Experiment at CERN / Edda Gschwendtner
11:00	Early Commissioning and Operation in 12 GeV CEBAF + Future Upgrade Plan / Michael Spata	TU2	Chair: Milorad Popovic	10:30	coffee break	TH2	Chair: Maurizio Vretenar	10:30	coffee break
11:30	Optimizing RF Linacs as Drivers for Inverse Compton Sources the ELI-NP Case / Cristina Vaccarezza	11:00	C-ADS Linac R&D Progress / Hongwei Zhao	11:00	Chopping High Intensity Ion Beams at FRANZ / Christoph Wiesner	11:00	Cryogenic Plants for SRF Linacs / Dana Arenius	11:00	Positive Trends in Radiation Risk Assessment and Consequent Opportunities for Linac Applications / Yehoshua Socol
11:50	Generation and Acceleration of Low Emittance, High Current Electron Beams for Super-KEKB / Mitsuhiro Yoshida	11:30	Beam Commissioning of the 100 MeV KOMAK Linac / Yong-Sub Cho	11:20	Acceleration of mA CW Proton Beams in SARAF Phase-I / Anik Kreisel	11:20	SPIRAL2 Cryomodule Production Result and Analyses / Pierre-Emmanuel Beraudin	11:30	Proton and Carbon Linacs for Hadron Therapy / Ugo Amaldi
12:10	Current Status of PAL-XFEL / In Soo Ko	11:50	Commissioning of Energy Upgrade Linac of J-PARC / Kazuo Hasegawa	11:40	Status of RAON Heavy Ion Accelerator Project / Hyung Jin Kim	11:40	Results from the LCLS X-band Transverse Deflector with fs Longitudinal Resolution / Yuantao Ding	12:00	Prospects for Accelerator Driven Thorium Reactors / Jean-Pierre Revol
12:30	lunch break	12:10	Linac Construction Status of CSNS Project / Sheng Wang	12:00	CW Heavy Ion Accelerator with Adjustable Energy for Material Science / Sergey Kutsev	12:00	Student prizes (10 min) + Student poster talk (20 min)	12:30	Closing remarks
14:00	MO3 Chair: Alexander Alexandrov	12:30	lunch break			12:30	lunch break		
14:00	Status of Superconducting Electron Linac Driver for Free Ion Beam Production at TRIUMF / Robert Laxdal	TU3	Chair: Graeme Burt			TH3	Chair: Alexey Tribendis		
14:20	Single-Knob Beam Line for Transverse Emittance Partitioning / Chen Xiao	14:00	Large Scale Testing of SRF Cavities and Modules / Jacek Swierblewski			14:00	SPIRAL2 Bunch Extension Monitor / Roman Revenko		
14:40	Model and Beam Based Setup Procedures for a High Power Hadron Superconducting Linac / Andrei Shishlo	14:20	Breakthrough Technology for Very High Quality Factors in SRF Cavities / Alexander Romanenko			14:20	Allison Scanner Emittance Diagnostic Development at TRIUMF / Aurelia Laxdal		
MOPL	Chair: Deepak Rapania	14:40	Nb3Sn - Present Status and Potential as an Alternative SRF Material / Sam Posen			14:40	Operation Experience with CW High Gradient and High QL Cryomodules / Curt Hovater		
15:00	Oral posters	TUPL	Chair: Subrata Nath			15:00	Oral posters		
16:00	Poster session	15:00	Oral posters			16:00	Poster session		
18:00		16:00	Poster session			18:00			
		18:00							
		15:00	CERN Technology Transfer Programme: Accelerating Science & Business Partnerships / Enrico Cesta						

Conference Outing

Conference Banquet

CERN Tour



Sponsors and Exhibitors

Sponsors



Exhibitors:



Conference Outing

Wednesday Outing to the Mont-Blanc area (Chamonix, France) - 12:30-21:30

Start at 12:30 immediately after Wednesday morning session, buses outside CICC
(no time to go to hotel, latecomers will be left behind!)

Lunch boxes will be distributed on the buses

3 options (guided tours) :

- | | | |
|--|---|---|
| 1. Aiguille du Midi with cable-car (3'842 m, 15'781 ft). | → | Expected temperatures:
-2 – 2 °C |
| 2. Mer de Glace with mountain train (1'913 m). | → | 10 – 15 °C |
| 3. Visit of Chamonix (1'035 m). | → | 12 – 20 °C |

Dinner in 2 typical restaurants in Chamonix.

You can leave your bags in the bus during the excursion – please remember the number of your bus and board the same on way back !

The buses will make 3 stops coming back to Geneva: Hotel Ibis Nations – Hotel Warwick (Cornavin Train Station) – Hotel Novotel (Paquis)



Please foresee clothing adapted to a (easy) high-mountain excursion: warm clothing, appropriate shoes (for options 1 and 2: training shoes, no sandals, no high heels, hat, sunglasses, sun cream).

Be prepared for any weather condition: rain (snow?) and sunshine!

In case of altitude sickness on Aiguille du Midi, contact the LOC member in your group who will take you to the next available cable car down.

Conference Banquet

- **Thursday September 4th at 19:00** (one hour after the end of the poster session!).
- **Grand Hotel Kempinski**, Quai du Mont-Blanc 19. On the lake shore, 10 min walk from Cornavin Train Station.



CERN Tour

- **Friday September 5th at 13:15** (immediately after the Conference closing!)
- Buses will leave from Rue Dunant, on the left coming out of CICG
- Lunch box distributed on the bus
- High heels, open shoes or sandals are strictly forbidden
- 5 itineraries, visits 1-4 end at 17:00, visit 5 ends at 16:00
- All buses will stop at the Airport (30' from CERN) and then at Geneva Train Station (Cornavin)

VISITS ARE COMPLETE (no more places available)

	Group 1	Group 2	Group 3	Group 4	Group 5
14:00	CTF3	Linac4			
14:30			CMS	LHCb	Microcosm
15:00					
15:30					Linac4
16:00	CMS	LHCb			
16:30			Linac4	CTF3	
17:00	Transfert to Geneva Airport and Train Station				



Badges and tickets

- Please wear your badge at the conference area and at all the events (including tours and social events)
- Inside your badge :
 - Invitation tickets to all events
 - Lunch admission tickets (3)



If you need assistance

If you need any type of assistance, please do not hesitate to contact the **Conference Secretariat at Level 2** or the **members of the LOC** (Local Organizing Committee) identified by their badge

General Phone number Secretariat: + **41 76 487 7130** (on **1st page of Booklet**)

A FEW EMERGENCY NUMBERS (can be found in your Booklet):

Police 117

Fire 118

Ambulance 144





Main topics of the conference

- Electron linear accelerators and applications
- Ion and proton linear accelerators and applications
- Sources, beam dynamics, and extreme beams
- Technology

Conference dates

- Abstract submission deadline: **4 April 2014**
- Early registration deadline: **30 June 2014**

Contact

- linac14.info@cern.ch

International Organizing Committee

- Roland Garoby (IOC Chair), CERN - Switzerland
- Frank Gerigk (SPC Chair), CERN - Switzerland
- Maurizio Wretenar (LOC Chair) CERN - Switzerland
- Jim Alessi - BNL, USA
- John Barnard - LLNL, USA
- Winfried Barth - GSI, Germany
- Swapan Chattopadhyay - Cockcroft, UK
- Jean Delaysen - ODU, USA
- John L. Erickson - LANL, USA
- Terence Garvey - PSI, Switzerland
- Kazuo Hasegawa - JAEA, Japan
- Hitoshi Hayano - KEK, Japan
- Yoshitsa Iwashita - Kyoto U., Japan
- Kevin W. Jones - SNS, USA
- Dinakar Kanjilal - IUAC, India
- Andrey Kolomolets - ITEP, Russia
- Leonid Kravchuk - INR, Russia
- L. K. Len - DOE, USA
- Israel Mardor - Soreq, Israel
- Lia Merminga - TRIUMF, Canada
- Alban Mosnier - CEA, France
- Won Namkung - Postech, Korea
- Peter Ostroumov - ANL, USA
- Guoxi Pei - IHEP, China
- Paolo Pierini - INFN, Italy
- Fulvia Pilat - JLAB, USA
- Milorad Popovic - FNAL, USA
- Ulrich Ratzinger - U. Frankfurt, Germany
- John Seeman - SLAC, USA
- Alessandro Variola - LAL, France
- Hans Weise - DESY, Germany
- Yoshishige Yamazaki - MSU, USA
- Yangjae Cho - ANL, USA
- Marion White - ANL, USA
- Stanley Schriber - Idaho, USA