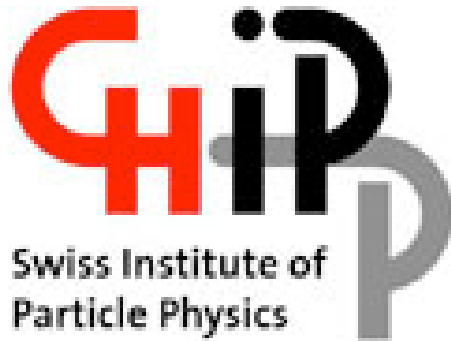


Outreach Activities



G. Dissertori

ETH Zürich



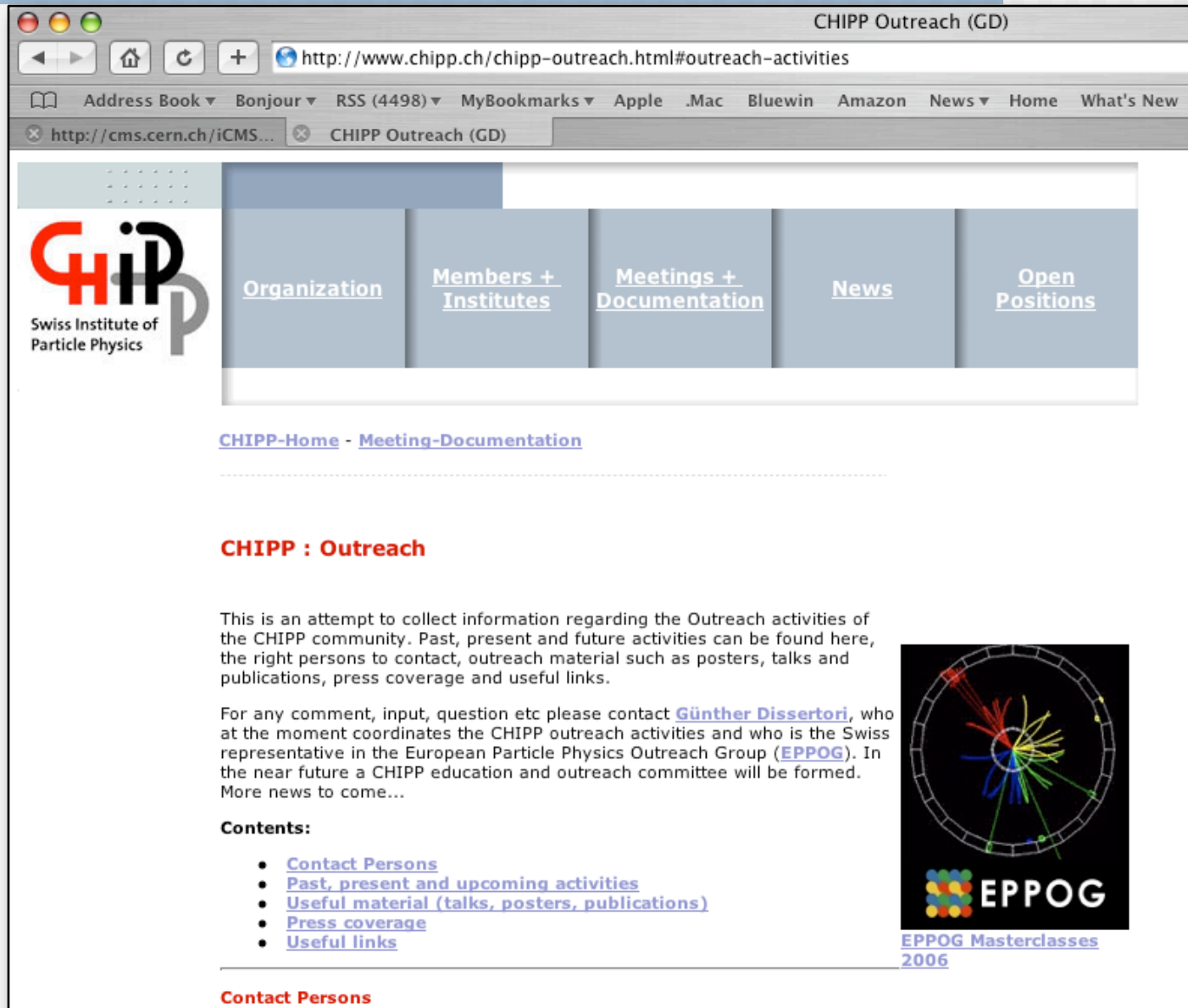
CHIPP Plenary Meeting,

PSI, October 2006

Content

- Summary of activities last year
 - Schweizer Jugend forscht
 - Masterclasses
 - EPPOG
 - ...
- Proposal for a CHIPP school

Reminder : Web site



CHIPP Outreach (GD)

http://www.chipp.ch/chipp-outreach.html#outreach-activities

Address Book Bonjour RSS (4498) MyBookmarks Apple .Mac Bluewin Amazon News Home What's New

http://cms.cern.ch/iCMS... CHIPP Outreach (GD)

CHIPP
Swiss Institute of Particle Physics

[Organization](#) [Members + Institutes](#) [Meetings + Documentation](#) [News](#) [Open Positions](#)

[CHIPP-Home - Meeting-Documentation](#)

CHIPP : Outreach

This is an attempt to collect information regarding the Outreach activities of the CHIPP community. Past, present and future activities can be found here, the right persons to contact, outreach material such as posters, talks and publications, press coverage and useful links.

For any comment, input, question etc please contact [Günther Dissertori](#), who at the moment coordinates the CHIPP outreach activities and who is the Swiss representative in the European Particle Physics Outreach Group ([EPPOG](#)). In the near future a CHIPP education and outreach committee will be formed. More news to come...

Contents:

- [Contact Persons](#)
- [Past, present and upcoming activities](#)
- [Useful material \(talks, posters, publications\)](#)
- [Press coverage](#)
- [Useful links](#)

EPPOG
EPPOG Masterclasses 2006

Contact Persons

Activities last year

■ Studienwoche Schweizer Jugend forscht

- 1 week (2.10 - 8.10.05) of scientific work by high-school students in several Swiss Institutions
 - 9 students at CERN, under ETH supervision
 - projects : cosmic rays, crystal properties, simulations

- On Saturday: all met in Bern, presentations by them
 - our group won prize for best presentation
 - ESA invited them to launch of VENUS Express

- Articles on CERN bulletin and several Swiss newspapers



Activities last year



- **Studienwoche Schweizer Jugend forscht....**

- **NOTE**

- SJF would like to have similar weeks at CERN every year
- in contact with Rolf Landua
- They would need supervisors, **Swiss if possible!**



Activities last year

■ European Master Classes

- first time that Swiss Institute participates in the European Master Classes
- Organization by EPPOG (mainly Prof. M. Kobel, Dresden) and CERN
- hands-on experience for high-school students
 - introductory presentations
 - analysis of event displays
 - determination of Z branching ratios
- in the afternoon :
 - video-conference, with CERN as host and students from several countries
- ETH Zurich was part of it (March 10, 2006)
 - mainly thanks to work by Ch. Grab
 - had 28 students at the Höggerberg
 - our group was winner of the quiz
- next year hope to involve also other institutes

Activities last year

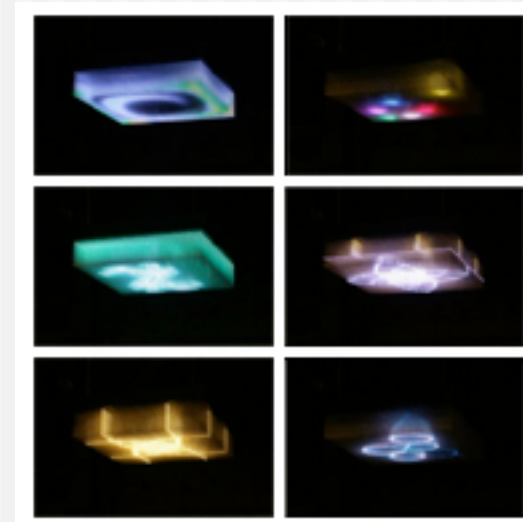
■ European Master Classes



Activities last year

■ in Zürich

- ETH / CMS is present at the ZH Hauptbahnhof via **NOVA** : <http://www.nova.ethz.ch>
- contribution from S. Dambach, Ch. Grab, U. Langenegger



■ in Bern

- regularly : "Physik am Samstag" Events
- <http://www.physics.unibe.ch/index.html>
- Very nice re-vamp of the Institutes Web site
- <http://www.lhep.unibe.ch>
- Press release for the start of the Opera experiment:
- <http://www.kommunikation.unibe.ch/lenya/kommunikation/live/medien/mitteilungen/news/2006/neutrinos.html>

Activities last year

■ contacts to teachers

- Ch. Grab has organized a special **one-day workshop for teachers** at ETH Zurich
 - on September 8, 2006
 - 10 teachers
 - work a la Masterclasses

- CERN starts to organize **1-week long workshops for teachers** from various countries
 - now concentrating on country-specific issues (eg. language and teaching material)
 - this extends the yearly HST-activity (3 weeks, in English)
 - I try to act as link person CERN-Swiss teachers

 - I have established first contacts with teachers in the German speaking part of Switzerland, following it up...

Activities last year

■ EPPOG meetings

- was at EPPOG meeting this spring, in London
- presented our experience with Masterclasses
 - was also involved in setting up new EPPOG website:
<http://eppog.web.cern.ch/eppog/>
- started discussions on how to go public when LHC starts up - contact national science museums in this context
- next meeting : end of this week
- will follow up these special LHC outreach issues
 - eg. CMS about to release a movie, featuring A. Lister
- how do we in Switzerland organize a special public relation activity for the LHC start?

CHIPP school

- **A proposal**
 - wish to organize/coordinate our PhD education on a **national level**
 - the introduction a formally unified graduate curriculum at all Universities appears hopeless
 - based on experience
 - “minimal” alternative:
 - organization of a **yearly 1-week** summer (or winter) school, for all our PhD students
 - this seems “doable”
- **Summer vs. Winter**
 - next summer there is no ZUOZ school
 - if approved by you, time to organize it by, eg. July 2007, should be enough
 - afterwards : Switch to winter school?

CHIPP school

■ Basic concepts

- recently started discussion with R. Rattazzi and M. Shaposhnikov
- **duration** : one week
- **Two “topical” lectures**
 - 10h in total, which allows to really go into the topic
 - one theoretically, one experimentally oriented
 - topics change every year
- A set of **overview lectures**
 - topics : our three “pillars”
 - 3h / topic
 - focus could change every year
- **Student talks and poster session**
 - lack of time : maybe only 2nd or 3rd year students
 - award for best poster
- A **specially invited seminar** (1h)
 - any physics topic outside particle physics
 - try to get very distinguished speaker

CHIPP school : Layout

- A possible time table:

Time Table : Swiss PhD Summer School, version 1

Hour/day	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday2	Sunday2
09:00 - 10:00		LHC Physics	LHC Physics	LHC Physics	Student Talks	Poster Session	Astrophysics/ Cosmology	Astrophysics/ Cosmology	
10:00 - 11:00		Topical Lect. 1	Topical Lect. 1	Topical Lect. 1	Student Talks	Poster Session	Topical Lect. 1	Topical Lect. 1	Astrophysics/ Cosmology
11:00 - 11:30		Break	Break	Break	Break	Break	Break	Break	
11:30 - 12:30		Topical Lect. 1	Topical Lect. 1	Topical Lect. 1	Student Talks	Poster Session	Topical Lect. 1	Topical Lect. 1	Concl. Session Poster Award
12:30 - 14:00		Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
14:00 - 15:00		Neutrino Physics	Neutrino Physics	Neutrino Physics	Free afternoon and/or excursion	Student Talks	Invited Seminar		Departure
15:00 - 16:00		Topical Lect. 2	Topical Lect. 2	Topical Lect. 2		Student Talks	Topical Lect. 2	Topical Lect. 2	
16:00 - 16:30	Arrival	Break	Break	Break		Break	Break	Break	
16:30 - 17:30		Topical Lect. 2	Topical Lect. 2	Topical Lect. 2		Student Talks	Topical Lect. 2	Topical Lect. 2	
17:30 - 18:30						Student Talks			
18:30 - 19:30		Discussion	Discussion	Discussion	Student Talks	Discussion	Discussion		
19:30 - 21:00	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	

CHIPP school

■ Comments

- Possible topical lectures for next summer
 - Model building, effective theories, ...
 - Accelerator Physics
- Ideas/proposals for special seminar/speaker very welcome
- Of course, comments in general very welcome

■ Next

- if you endorse this proposal, then
- I would start the organization
 - find location (there are some ideas)
 - look for money (there are some ideas, but others welcome.. :)
- help needed

CHIPP school

- **Financial Issues :**
 - Hotel/meals :
 - paid by student, ie. Institute's travel budget
 - let's ask 3eme cycle and ETH/Universities (others?) for support/subsidy
 - School infrastructure / coffee breaks
 - ~ 5000 SFR
 - should get support from Universities/ETHs
 - Reimbursement for CHIPP-external speakers
 - travel, lodging, lectures
 - ~5000/speaker
 - all together we should try to collect about 15-20k SFR to get serious...