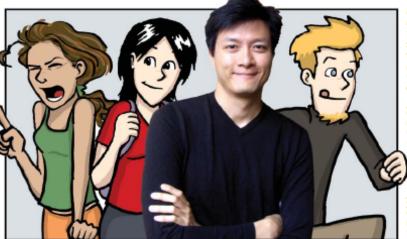






	Monday, Sept 14 Invited Talks		Tuesday, Sept 15 Invited Talks		Wednesday, Sept 16 Invited Talks		Thursday, Sept 17 Invited Talks		Friday, Sept 18 Invited Talks	
08:30	Welcome (M. Ferrario-INFN)	15'	Dielectric laser acceleration: results and	40'	Ion acceleration from ultra thin foils	40'	Overview on advanced diagnostics for	40'	Review on Betatron/Compton sources	40'
	The prospects of advanced accelerator	25'	perspective		<u> </u>		High Brightness Beams		<u> </u>	
	R&D in Europe		<i>1</i> '		<u> </u>		Alessandro Cianchi - INFN - Univ. Roma		<u>'</u>	'
	Ralph Assmann - DESY		Joel England - SLAC		Paul McKenna - Strathclyde		Tor Vergata		Kim Ta Phuoc - LOA	
09:10	Prospects for Advanced Accelerator R	40'	THz-based acceleration	40'	Laser interaction with nearly	40'	Optical probing of a laser-driven electron	40'	Ultra-high brilliance γ ray beams	40¹
	in the US: Perspectives on the HEPAP		4		overdense gas targets for ion		accelerator		generation	
	Accelerator R Sub-panel Report		4		acceleration		<u> </u>		'	
	James Rosenzweig - UCLA		Franz Kaertner - DESY		Alessandro Flacco - LOA		Alexander Sävert - Jena		Gianluca Sarri - Queen's University of	'
			<u>/</u>		<u> </u>		<u> </u>		Belfast	_
	Overview of Advanced Accelerator	40'	High gradient, X-band and above, metallic	40'	. ,	40'	Matching beams into plasma-based	40'	0 0	40'
	Development in Asia		RF structures		acceleration		accelerators		research at Osaka university; Towards	'
	1		4 · '		<u> </u>		√ '		practical accelerators	'
I I	Wei Lu - Tsinghua		Valery Dolgashev - SLAC		Vincent Bagnoud - GSI, HI Jena		Andreas R. Maier - DESY		Tomonao HOSOKAI - Osaka University	_
10:30	Coffe Break (10:30-11:00)		Coffe Break		Coffe Break and Group Picture		Coffe Break		Coffe Break	4 '
	Invited Talks		Invited Talks	T	Invited Talks	T	Invited Talks	T	Invited Talks	7 '
	BELLA: multi-GeV electron beam	30'	Recent advances in plasma accelerator	30'			LWFA electron beam manipulation for FEL	30'		30'
i	generation and outlook		modelling and theory		laser and beam driven plasma accelerators		amplification		PW laser of the Apollon facility in the CILEX centre	'
	LUCE D. LECTOR LIBRARY		I to other total to be				I select subserve Coloil			'
11	Wim P. Leemans - LBNL High Efficiency and High-Gradient	20'	Luis Silva - IST Lisboa PIC modelling of laser-solid interactions:	20'	Bernhard Hidding - Strathclyde		Alexandre Loulergue - Soleil Ultra-compact all-optical FELs and	30'	Patrick Audebert- LULI State-of-the-art high power and rep'	30'
	Acceleration of Electrons and Positrons	30	from ion acceleration to high field	30	Prospects for proton-driven plasma acceleration		1 1	30	rate laser	30
	in a Plasma Wakefield Accelerator		plasmonics		acceleration		Compton sources		rate laser	
			l'		J		1 2-1		- 1 tastitut diontique	
	Chan Joshi - UCLA Beam manipulation with Velocity	30'	Andrea Sgattoni - CNR Pisa Using ionization injection to get high	30'	Allen Caldwell - MPP Laser Wakefield Acceleration of	→ ⊢	Alexander Debus - HZDR Staging acceleration to improve an energy	30'	Frederic Druon - Institut d'Optique From conventional to advanced	30'
	Bunching for PWFA applications	30	quality electron beam in laser wakefield	30	positrons in the blowout regime	30	spread in laser wakefield acceleration	30	concepts for Linear Colliders	30
	Bunching for PWPA applications		acceleration		positrons in the blowout regime		spread in laser wakeneid acceleration		concepts for Linear Coniders	
	Riccardo Pompili - INFN		Min Chen - Shanghai Jiao Tong University		Jorge Vieira - IST Lisboa		Masaki Kando - JAEA		Daniel Schulte - Cern	
	·	↓ ↓				1 1		1		
12:30	Lunch Break (12:30-16:00)	210'	Lunch Break (12:30-15:00)	150'	Lunch Break (12:30-16:00)	210'		210'		4
			, ,				Lunch Break (12:30-16:00)		Invited Talks	7
			Working Groups						Science and the art of inventiveness	40'
		. 7	/ · · · · · · · · · · · · · · · · · · ·			4		4	Andrei Seryi - John Adams Inst.	
16:00	Working Groups	90'	WG1 - WG2 -WG3 -WG4 - WG5		Working Groups	90'	Working Groups	90'	WGs Summary	90'
	WG1 - WG2 -WG3 -WG4 - WG5		1		WG1 - WG2 -WG6 - WG7		WG1 - WG4 -WG6		WG1 -WG2 - WG3	
	Coffe Break (17:30-18:00)									
18:00		90'		30'	1	90'		90'		90'
10.00	Working Groups	50	Working Groups	30	Working Groups	90	Working Groups	30	WGs Summary	90
	WG1 - WG2 -WG3 -WG4 - WG5		WG1 - WG2 -WG3 -WG4 - WG5 The Power of Procrastination	60'	WG1 -WG6 - WG7		WG1 - WG4 -WG6		<u> '</u>	
	WG1 - WG2 - WG3 - WG4 - WG3	6	Jorge Cham)	WG1-WG0-WG7		WG1- WG4-WG0		WG4 -WG5 - WG6 - WG7	
19:30	Wine and Poster Session	60'	Jorge Chairi	80'	Wine and Poster Session	60'		60'		
15.50	WG1-WG2-WG3-WG4)		(00	WG5-WG6-WG7)		00		
20:30			-	1			2 11212		2:	
	Dinner		Dinner	1	Dinner	A	Social Dinner and Dance	1)	Dinner	4
22:00	L	_			The PHD Movie by Jorge Cham	1				_
	WG1 @ SML (Sala Maria Luisa)		WG7-WG4 @ SE (Sala Elena)		WG2 @ 581 (Sala Bonaparte 1)		WG6- WG3 @ SB2 (Sala Bonaparte 2)		WG5 @ SBIO (Sala Biodola)	



PROFILE: JORGE CHAM

Piled Higher and Deeper: The **Everyday Life of a Grad Student**

Jorge Cham has been capturing the trials and tribulations of grad school in a comic strip for more than a decade; now he's left the lab for the lecture circuit

Jorge Cham is not a Nobel laureate, but the popularity of his keynote lectures and his following in the scientific world are enough to make even the most distinguished professor green with envy. Cham, 33, is the brains behind the comic strip Ptled Higher and Deeper-PhD for short-and it's made him a celebrity among graduate students, with 4.7 million visitors a year to his Web site and a battalion of fans in labs all over the planet. His fourth book, Academic Stimulus Package, is scheduled for publication this month.

Supervisors interested in learning what's on their students' minds might find PhD an illuminating place to start. After all, "every professor was once a graduate student," says Anthony Finkelstein, head of the Computer Sciences department at University College London (UCL) and a PhD fan. Cham's comic strip resonates with graduate students and professors alike because it deals with everyday frustrations of life in the lab-procrastination, dealing with advisers, serving on committees, lack of inspiration-and its appeal seems to be universal. "I live all those issues every day," says Martha Elena Ibarra, a molecular biology Ph.D. student at the Cinvestav laboratory in Irapuato, Mexico. "It makes you feel you're not the only one out

there," says Shrikant Sundaram, an electrical engineering master's student at the University of Southern California in Los Angeles.

Cham, who is surprisingly low-key for somebody with such a sharp eye and an edge

to his humor, grew up in Panama in a science-oriented family. Both of his parents have graduate degrees and taught at the University of Panama. "I guess you could say geekiness is in our genes," Cham says, "but they also instilled in us to value education and hard work."

As a child, Cham dreamed of becoming an engineer. "I was interested in machines and movement, so mechanical engineering seemed the best fit and robotics the most interesting to me within that," he says. He graduated from the Georgia Institute of Technology in Atlanta in 1997 with a bachelor's degree in mechanical engineering and got into cartooning almost by accident.

In the fall of 1997, a few weeks after he started a master's program in mechanical engineering at Stanford University in Palo Alto, California, the student newspaper The Stanford Dathy put out a call for a new comic strip. Cham, his brother Jaime, who was also a graduate student at Stanford. and a few friends discussed some ideas for a comic strip over dinner. "My brother said he always thought there should be one about grad school, because that's when the real pain begins," Cham recalls.

Cham was enthused. Although he had doodled as a child and his school notebooks were filled with little drawings, he had never tried sketching comics before.

"At the time, I was also reading a book about Doonesbury," the comic strip that has provided wry social and political commentary since 1970, "so I was kind of inspired in that way," he says. Despite being busy with a full load of classes and teaching assistant duties, Cham says, "I

somehow thought it would be a good idea to draw a comic 5 days a week."

Cham proposed a comic strip that would center on the life (or lack thereof) of a group of overworked, underpaid, procrastinating graduate students and their terrifying advisers. The Stanford Datly's editors liked the idea, and in October 1997, Ptled Htgher and Deeper was born. A few weeks later. Cham created the Web site on which, to this day, his comic strip is available for free.

From the beginning, PhD has featured a regular cast of characters: the nameless hero, suspiciously similar to the author himself; geeky Cecilia, the dedicated engineer-

ing student; Mike Slackenerny, who takes laziness to a whole new level; social scientist Tajel; the absent-minded Professor Jones: and the demanding Professor Smith. Cham insists that none of them is based on real people, but he acknowledges that he was inspired by colleagues

"from the research center where I worked, to my cohort of classmates, to a lot of my brother's friends."

Split careers

sciencecareers.org

part of a special

Science Careers feature

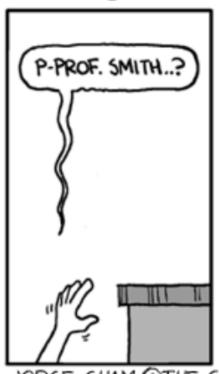
on scientists who have

This article is

Cham kept up the comic strip while he finished his master's degree and continued it during the 4 years he spent at Stanford studying for a Ph.D. His research was part of a multidisciplinary project to build a sturdy and fast six-legged robot-a design inspired by cockroaches-capable of maneuvering in bumpy terrains. Cham's role was to design the legs and joints. "He was a great student, creative and hardworking and very sharp,"

45 Fellowships have been assigned

Piled Higher and Deeper by Jorge Cham www.phdcomics.com









JORGE CHAM @THE STANFORD DAILY

Prof Smith recommendation:
Students will have dinner at their own hotel
(except for the social dinner of course)

Deadline for workshop proceedings submission: October 31

- All the plenary talks will be recorded and posted on the workshop website
- Please upload your files via INDICO



2013 - NIM-A, Vol 740

Sponsors

This Workshop is supported by the **EU via EuCARD-2 GA 312453** "Enhanced European Coordination for Accelerator Research and Development".

List of Sponsors





















organized by

Frontier Detectors for Frontier Physics





Sponsored by the Particles and Fields Commission of UIPAP

ICFA Panel on Advanced and Novel Accelerators

DVANCED OVEL CCELERATORS

ANA Mission and panel members



Mission: To extend and support the international collaboration and communication in the field of new acceleration techniques.

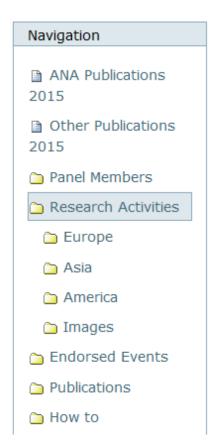
- Brigitte Cros (chair), France
- Bruce Carlsten,, USA
- Massimo Ferrario, Italy
- Brian Foster, Germany
- Ryoichi Hajima, Japan
- Dino **Jaroszynski**,, UK
- Patric **Muggli**,, Germany

- Philippe Piot, USA
- James Rosenweig, USA
- Carl Schroeder, USA
- Chuanxiang Tang, China
- Mitsuru **Uesaka**, Japan
- Mitsuhiro Yoshida, Japan

ICFA ANA website, be part of it Showcase your group, lab, work



- http://www.lpgp.u-psud.fr/icfaana
- Objective: provide a comprehensive view of the rapidly growing field of advanced accelerators
- Main pages
 - Panel Members
 - Endorsed Events
 - Research Activities
 - Publications
 - Meetings
 - Reports
 - ANA Events



Research Activities

Advanced Accelerators Research Activi

Europe

European laboratories, institutes or projec contact Patric Muggli, email (remove space

Read More...

Asia

Asian laboratories, institutes or projects $\mbox{\it w}$ contact Chuanxiang Tang, email (remove $\mbox{\it s}$

Read More...

America

American laboratories, institutes or projec contact Bruce Carlsten or Philippe Piot, em

Read More...

Contact P. Muggli to add a reference to your publication



ANA Publications 2015

Articles published in 2015 in refereed international journals related to Advanced and Novel Accelerators

- Ponderomotive acceleration by relativistic waves, C. K. Lau, P. C. Yeh, O. Luk, J. McClenaghan, T. Ebisuzaki, and T. Tajima, Phys. Rev. ST Accel. Beams 18, 024401 (2015).
- High energy protons generation by two sequential laser pulses, Xiaofeng Wang, Baifei Shen, Xiaomei Zhang, Wenpeng Wang, Jiancai Xu, Longqing Yi and Yin Shi, Phys. Plasmas 22, 043106 (2015).
- Synergistic Laser-Wakefield and Direct-Laser Acceleration in the Plasma-Bubble Regime, Xi Zhang, Vladimir N. Khudik, and Gennady Shvets, Phys Rev Lett, 114, 184801 (2015).
- Coulomb-Driven Energy Boost of Heavy Ions for Laser-Plasma Acceleration, J. Braenzel, A. A. Andreev, K. Platonov, M. Klingsporn, L. Ehrentraut, W. Sandner, and M. Schnürer, Phys Rev Lett, 114, 124801 (2015).
- Enhancement of maximum attainable ion energy in the radiation pressure acceleration regime using a guiding structure, S. S. Bulanov, E. Esarey, C. B. Schroeder, S. V. Bulanov, T. Zh. Esirkepov, M. Kando, F. Pegoraro, and W. P. Leemans, Phys Rev Lett, 114, 105003 (2015).
- Plasma Undulator Based on Laser Excitation of Wakefields in a Plasma Channel, S. G. Rykovanov, C. B. Schroeder, E. Esarey, C. G. R. Geddes, and W. P. Leemans, Phys Rev Lett, 114, 145003 (2015).
- Compact quasi-monoenergetic photon sources from laser-plasma accelerators for nuclear detection and characterization, Cameron G. R. Geddes, Sergey Rykovanov, Nicholas H. Matlis, Sven Steinke, Jean-Luc Vay, Eric H. Esarey, Bernhard Ludewigt, Kei Nakamura, Brian J. Quiter, Carl B. Schroeder, Csaba Toth, Wim P. Leemans, Nucl Instrum Methods B, 350, 116 (2015).
- Multichromatic Narrow-Energy-Spread Electron Bunches from Laser-Wakefield Acceleration with Dual-Color Lasers, M. Zeng, M. Chen, L.L. Yu, W.B. Mori, Z.M. Sheng, B. Hidding, D.A. Jaroszynski, and J. Zhang, Phys Rev Lett, 114, 084801 (2015).
- Drift effect on vacuum birefringence in a strong electric and magnetic field, Yongsheng Huang, Naiyan Wang, Xiuzhang Tang, Chinese Physics B, 24, 034201 (2015).
- Acceleration of highly charged GeV Fe ions from a low-Z substrate by intense femtosecond laser, M. Nishiuchi, H. Sakaki, T. Zh. Esirkepov, K. Nishio, T. A. Pikuz, A. Ya. Faenov, I. Yu. Skobelev, R. Orlandi, H. Sako, A. S. Pirozhkov, K. Matsukawa, A. Sagisaka, K. Ogura, M. Kanasaki, H. Kiriyama, Y. Fukuda, H. Koura, M. Kando, T. Yamauchi, Y. Watanabe, S. V. Bulanov, K. Kondo, K. Imai and S. Nagamiya, Phys Plasmas, 22, 033107 (2015).
- Step density model of laser sustained ion channel and Coulomb explosion, Satish Kumar Rajouria, H. K. Malik, V. K. Tripathi and Pawan Kumar, Physics of Plasmas, 22,023104 (2015).
- Plasma wakefield acceleration studies using the quasi-static code WAKE, Neeraj Jain, John Palastro, T. M. Antonsen Jr., Warren B. Mori and Weiming An, Physics of Plasmas, 22,023103
- High quality electron bunch generation with CO2-laser-plasma interaction, Lingang Zhang, Baifei Shen, Jiancai Xu, Liangliang Ji, Xiaomei Zhang, Wenpeng Wang, Xueyan Zhao, Longqing Yi, Yahong Yu, Yin Shi, Tongjun Xu and Zhizhan Xu, Physics of Plasmas, 22,023106 (2015).
- Compact tunable Compton x-ray source from laser-plasma accelerator and plasma mirror, Hai-En Tsai, Xiaoming Wang, Joseph M. Shaw, Zhengyan Li, Alexey V. Arefiev, Xi Zhang, Rafal Zgadzaj, Watson Henderson, V. Khudik, G. Shvets and M. C. Downer, Phys. Plasmas 22, 023101 (2015).
- Nonlinear surface plasma wave induced target normal sheath acceleration of protons, C. S. Liu, V. K. Tripathi, Xi Shao and T. C. Liu, Physics of Plasmas, 22,023105 (2015).

Send this - Print this -

Go to: http://www.lpgp.u-psud.fr/icfaana/how-to

Fill the html snippet

email it to muggli@mpp.mpg.de and have it appear on the ICFA-ANA page ...



ACCELERATORS | PHOTON SCIENCE | PARTICLE PHYSICS

Google™ Custom Search

Deutsches Elektronen-Synchrotron A Research Centre of the Helmholtz Association

DESY HOME | RESEARCH | NEWS | ABOUT DESY | CONTACT





HELMHOLTZ VI FOR PWFA

Virtual Institute for plasma wakefield acceleration of highly relativistic electrons with FLASH



Working Group 1: PIC Simulations

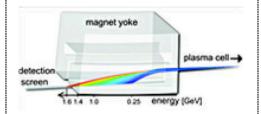


Coordinators:

Dr. Jorge Vieira (IST) and Dr. Alberto Martinez de la Ossa (DESY)

» Overview

Working Group 2: Beam Instrumentation



Coordinators:

Dr. Ivan Konoplev (JAI) and Dr. Vladyslav Libov (DESY)

» Overview

Working Group 3: Plasma Sources

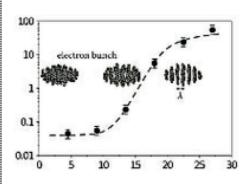


Coordinators:

Dr. Patric Muggli (MPP) and Dr. Lucas Schaper (DESY)

» Overview

Working Group 4: Photon Sources



Coordinators:

Dr. Carl Schroeder (LBNL) and Dr. Christopher Behrens (DESY)

....Oxopziow.

