Computations for Accelerator Physics
Advanced beam diagnostics for beams and plasma
Novel schemes using advanced technologies (table-top FEL, plasma linear collider, ...)
High gradient and multibunch acceleration in metallic structures (C-X-band and beyond) with innovative power generation schemes
Dielectric structures and other novel technologies
Plasma accelerators driven by electron beams
Plasma accelerators driven by modern lasers
Plasma accelerators driven by proton beams

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• Many thanks to all the people who have accepted to share the room due to overbooking

• If you like to have dinner at your own hotel please contact your hotel reception desk at breakfast time
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<th>Time</th>
<th>Monday, Sept 14</th>
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<td>08:30</td>
<td>Welcome (M. Ferraro-INFN)</td>
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<td>09:00</td>
<td>Overview of Advanced Accelerator Development in Asia</td>
<td>Franz Kaertner - DESY</td>
<td>ION acceleration from ultra thin foils</td>
<td>Laser interaction with nearly overdense gas targets for ION acceleration</td>
<td>Ultra-high brilliance γ ray beams generation</td>
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<td>10:00</td>
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<td>11:00</td>
<td>BELLA: multi-GeV electron beam generation and outlook</td>
<td>Luis Silva - IST Lisboa</td>
<td>Recent advances in plasma accelerator modelling and theory</td>
<td>Prospects for advanced combined laser and beam driven plasma accelerators</td>
<td>Experimental program with the multi-PW laser of the Apollon facility in the CLEX centre</td>
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<td>High Efficiency and High-Gradient Acceleration of Electrons and Positrons in a Plasma Wakefield Accelerator</td>
<td>Andrea Sbattoni - CNR Pisa</td>
<td>PROSPECTS FOR PROTON-DRIVEN Plasma Acceleration</td>
<td>Ultra-compact all-optical FELs and Compton sources</td>
<td>State-of-the-art high power and repetitive laser</td>
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<td>12:00</td>
<td>Beam manipulation with Velocity Bunching for PWFA applications</td>
<td>Min Chen - Shanghai Jiao Tong University</td>
<td>Laser Wakefield Acceleration of positrons in the blowout regime</td>
<td>State-of-the-art high power and repetitive laser</td>
<td>From conventional to advanced concepts for Linear Colliders</td>
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<td>16:00</td>
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<td>Wine and Poster Session</td>
<td>Wine and Poster Session</td>
<td>Wine and Poster Session</td>
<td>Dinner</td>
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<td>20:30</td>
<td>Dinner</td>
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<td>22:00</td>
<td>The PhD Movie by Jorge Cham</td>
<td>The Power of Procrastination</td>
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WG1 at SML (Sala Maria Luisa)  WG7 @ SFB (Sala Elena)  WG2 at SB1 (Sala Bonaparte 1)  WG6 @ SB2 (Sala Bonaparte 2)  WG5 @ SBI (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 Piled 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 Daily 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 Daily's editors liked the idea, and in October 1997, Piled Higher 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 engineering student; Mike Slackenorm, who takes laziness to a whole new level; social scientist Tajil; 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

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

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
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  - Panel Members
  - Endorsed Events
  - Research Activities
  - Publications
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ANA Publications 2015

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

- Drift effect on vacuum birefringence in a strong electric and magnetic field, Yongsheng Huang, Naiyan Wang, Xiuzhang Tang, Chinese Physics B, 24, 034201 (2015).

Go to: [http://www.lpgp.u-psud.fr/icfaana/how-to](http://www.lpgp.u-psud.fr/icfaana/how-to)
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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)
Have a nice and fruitful workshop