

## REGISTRATIONS AS OF AUGUST 25, 2009

<b>Abell</b>	Dan	Tech-X Corp.
<b>Ackermann</b>	Wolfgang	Technische Universitaet Darmstadt
<b>Adelmann</b>	Andreas	PSI
<b>Alexahin</b>	Yuri	Fermilab
<b>Amundson</b>	James	Fermilab
<b>Asova</b>	Galina	DESY
<b>Austin</b>	Travis	Tech-X Corporation
<b>Bartolini</b>	Riccardo	Diamond Light Source
<b>Bassi</b>	Gabriele	University of Liverpool
<b>Batygin</b>	Yuri	NSCL
<b>Bauer</b>	Carl	University of Colorado, Boulder
<b>Bell</b>	George	Tech-X Corp.
<b>Bengtsson</b>	Johan	Brookhaven National Laboratory
<b>Berz</b>	Martin	Michigan State University
<b>Bethel</b>	Wes	LBNL
<b>Boehnlein</b>	Amber	DOE/OHEP
<b>Boman</b>	Erik	Sandia National Labs
<b>Borland</b>	Michael	Argonne National Laboratory
<b>Brown</b>	Kevin	Brookhaven National Laboratory
<b>Cai</b>	Yunhai	SLAC
<b>Campos</b>	Pinto Martin	CNRS and IRMA (University of Strasbourg)
<b>Candel</b>	Arno	SLAC National Accelerator Laboratory
<b>Canon</b>	Shane	NERSC/LBL
<b>Chao</b>	Yu-Chiu	TRIUMF
<b>Clemens</b>	Markus	Helmut-Schmidt-University
<b>Clemente</b>	Gianluigi	GSI
<b>Cowan</b>	Benjamin	Tech-X Corporation
<b>D'Angelo</b>	John	USAF/AFRL
<b>De Gersem</b>	Herbert	Katholieke Universiteit Leuven
<b>Decyk</b>	Viktor	UCLA
<b>DeFord</b>	John	STAAR/ AWR Corporation
<b>Dehler</b>	Micha	Paul Scherrer Institut
<b>Di Mitri</b>	Simone	Sincrotrone Trieste

<b>Dimitrov</b>	Dimitre	Tech-X Corp.
<b>Ding</b>	Yuantao	SLAC
<b>Dohlus</b>	Martin	DESY
<b>Dragt</b>	Alex	Physics Department
<b>Ellison</b>	James	UNM
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<b>Fulginiti</b>	Aurelia	CST of America
<b>Ge</b>	Lixin	SLAC
<b>Geddes</b>	Cameron	LBNL
<b>Geng</b>	Huiping	SLAC
<b>Gorlov</b>	Timofey	ORNL
<b>Groening</b>	Lars	GSI Darmstadt
<b>Grote</b>	Dave	LLNL
<b>Haenichen</b>	Lukas	Technische Universitaet Darmstadt
<b>Heinemann</b>	Klaus	Dept. Mathematics and Statistics
<b>Henshaw</b>	William	Lawrence Livermore National Lab
<b>Hess</b>	Mar	Indiana University Cyclotron Facility
<b>Hofler</b>	Alicia	Jefferson Lab
<b>Holmes</b>	Jeffrey	Oak Ridge National Laboratory
<b>Huang</b>	Chengkun	UCLA/LANL
<b>Ikegami</b>	Masanori	KEK
<b>Ineichen</b>	Yves	ETH/PSI
<b>Ivanov</b>	Valentin	Muons, Inc.
<b>Johnstone</b>	Carol	Fermilab
<b>Jones</b>	Frederick	TRIUMF
<b>Kabel</b>	Andreas	SLAC National Accelerator Laboratory
<b>Kase</b>	Edwin	Tech-X Corporation
<b>Kawaguchi</b>	Hideki	Muroran Institute of Technology
<b>Kim</b>	Hyung	Fermilab
<b>Koch</b>	Stephan	Technische Universitaet Darmstadt

<b>Kornilov</b>	Vladimir	GSI Darmstadt
<b>Krawczyk</b>	Frank	Los Alamos National Laboratory
<b>Lau</b>	Thomas	Technische Universitaet Darmstadt
<b>Limberg</b>	Torsten	DESY
<b>Lin</b>	Fanglei	Brookhaven National Lab
<b>Lin</b>	Ming-Chieh	Tech-X Corporation
<b>Liu</b>	Yu Dong	Institute of High Energy Physics, P. R. China
<b>Lunin</b>	Andrei	Fermilab
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<b>Mayes</b>	Christopher	Cornell University
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<b>Michel</b>	Estelle	LBNL
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<b>Ng</b>	Cho-Kuen	SLAC National Accelerator Laboratory
<b>Nieter</b>	Chet	Tech-X Corporation
<b>Nishimura</b>	Hiroshi	LBNL
<b>Ohmi</b>	Kazuhito	KEK
<b>Okamoto</b>	Hiromi	Hiroshima University
<b>Okuda</b>	Natsuki	University of Tokyo
<b>Park</b>	Chong Shik	Indiana University
<b>Paul</b>	Kevin	Tech-X Corporation
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<b>Pine</b>	Ben	STFC
<b>Poeplau</b>	Gisela	Rostock University
<b>Prior</b>	Christopher	STFC/RAL
<b>Qiang</b>	Ji	LBNL
<b>Rawat</b>	Vineet	SLAC National Accelerator Laboratory
<b>Reiche</b>	Sven	Paul Scherrer Institut
<b>Roberts</b>	Tom	Muons, Inc.

<b>Rowland</b>	James	Diamond Light Source
<b>Ruelas</b>	Marcos	RadiaBeam Technologies
<b>Rumolo</b>	Giovanni	CERN
<b>Russenschuck</b>	Stephan	CERN
<b>Ryne</b>	Robert	LBNL
<b>Samuel</b>	F. Martins	GoLP/IPFN - Inst. Sup. Tecnico
<b>Schauer</b>	Martin	CST of America
<b>Schietinger</b>	Thomas	Paul Scherrer Institut
<b>Schmidt</b>	Frank	CERN
<b>Schnepp</b>	Sascha	Graduate School CE, TU Darmstadt
<b>Schoefer</b>	Vincent	Brookhaven National Laboratory
<b>Schussman</b>	Greg	SLAC
<b>Shalf</b>	John	LBNL/NERSC
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<b>Shasharina</b>	Svetlana	Tech-X Corporation
<b>Shishlo</b>	Andrei	ORNL
<b>Smithe</b>	David	Tech-X Corporation
<b>Solyak</b>	Nikolay	Fermi National Accelerator Laboratory
<b>Stern</b>	Eric	Fermi National Accelerator Laboratory
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<b>Tian</b>	Kai	Jefferson lab
<b>Tse</b>	Eric	SLAC NAL
<b>Valishev</b>	Alexander	Fermilab
<b>Vay</b>	Jean-Luc	Lawrence Berkeley National Laboratory
<b>Vorobiev</b>	Leonid	Fermi National Accelerator Laboratory
<b>Walstrom</b>	Peter	Defense Threat Reduction Agency
<b>Wang</b>	Haipeng	Jefferson Lab
<b>Wang</b>	Nanbor	Tech-X Corporation
<b>Wang</b>	Yusong	Argonne National Laboratory
<b>Warnock</b>	Robert	SLAC National Accelerator Laboratory
<b>Weathersby</b>	Stephen	SLAC
<b>Weiland</b>	Thomas	Technische Universitaet Darmstadt
<b>Werner</b>	Gregory	University of Colorado
<b>White</b>	Daniel	LLNL
<b>Wittberger</b>	Marcus	Paul Scherrer Institute / ETH Zurich
<b>Xiao</b>	Aimin	APS

<b>Xiao</b>	Liling	SLAC
<b>Xiao</b>	Meiqin	Fermilab
<b>Xu</b>	Jin	ANL
<b>Xu</b>	Shouyan	IHEP
<b>Yamazaki</b>	Ichitaro	LBNL
<b>Yang</b>	Jianjun	THU / CIAE
<b>Yang</b>	Lingyun	LBNL
<b>Yelick</b>	Kathy	NERSC / LBNL / UC Berkeley
<b>Yuri</b>	Yosuke	Japan Atomic Energy Agency
<b>Zhang</b>	Yuan	Institute of High Energy Physics
<b>Zhou</b>	Demin	KEK

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## PREFACE

The 2009 International Computational Accelerator Conference was held Aug 31 - Sept 4, 2009 in San Francisco, California. Hosted by Lawrence Berkeley National Laboratory and the SLAC National Accelerator Laboratory, ICAP'09 was the 10<sup>th</sup> in the conference series, following meetings in La Jolla, California (1988), Los Alamos, New Mexico (1990), Pleasanton, California (1993), Williamsburg, Virginia (1996), Monterey, California (1998), Darmstadt, Germany (2000), East Lansing, Michigan (2002), St. Petersburg, Russia (2004), and Chamonix, France (2006).

The combination of an exciting technical program and a world-class venue (the Mark Hopkins InterContinental Hotel in the heart of San Francisco) resulted in a conference that attracted 168 registered attendees, the most in the conference series history, from North America, Europe, and Asia. Accepted for the program were 115 talks and 32 posters on a variety of topics, including computational beam dynamics, electromagnetics, advanced accelerator modeling, numerical algorithms, and visualization. A special session was organized by researchers from the National Energy Research Scientific Computing Center (NERSC) on Trends in High Performance Computing.

This conference would not have been possible without the dedicated efforts of many people. The Local Organizing Committee consisted of Martha Condon, Conference Administrator; Laurie O'Brien, Financial Officer; Sarah Poon, Conference Webmaster; Joe Chew, Conference Editor; and myself, Conference Chair. The International Organizing Committee consisted of Martin Berz (MSU), Oliver Boine-Frankenheim (GSI), Kwok Ko (SLAC), Kyoko Makino (MSU), Cho Ng (SLAC), Kazuhito Ohmi (KEK), Dmitri Ovsyannikov (St. Petersburg State University), Ursula van Rienen (U. Rostock), Stephan Russenschuck (CERN), Frank Schmidt (CERN), Tsumoru Shintake (RIKEN), Chuan-Xiang Tang (Tsinghua University), and Thomas Weiland (TEMF/Darmstadt).

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I especially want to thank Joe Chew, Conference Editor, whose efforts before, during, and after the conference have made these proceedings a reality.

Lastly, thanks to the participants of ICAP'09. Their involvement and enthusiasm are ultimately responsible for the success of ICAP.

Robert D. Ryne  
ICAP'09 Conference Chair