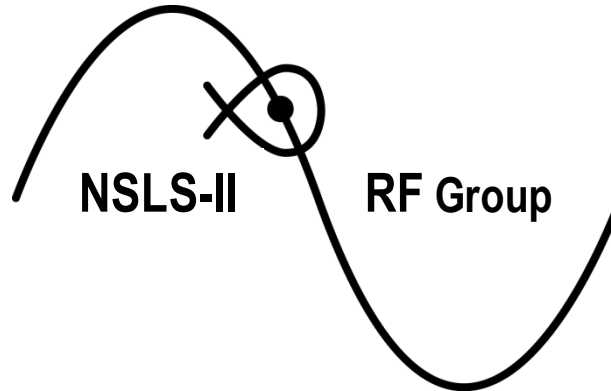


# Welcome to CWRF2012

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## Hosted by

**BROOKHAVEN**  
NATIONAL LABORATORY



Collider  
Accelerator  
RF Group

and sponsored by

DOE ● AES ● Bruker ● CPI ● Ferrite ● L3 ● RI ● Thales ●  
Thomson

# Organizing and Scientific Program Committees

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We wish to thank our organizing and scientific program committees for their hard work in putting this workshop together- in particular Daniel Valuch and Ali Nassiri who guided us through the planning process

## **Organizing committee**

Jim Rose-BNL

Ali Nassiri-ANL

Aditya Goel-BNL

Francis Perez-ALBA

Shigeki Sasaki-Spring8

Morten Jensen-Diamond

Erk Jensen-CERN

Paula Callejas-Lynn

BNL workshop secretary

## **Scientific committee**

Daniel Valuch-CERN

Jorn Jacob-ESRF

Doug Horan-APS

Patrick Marchand-SOLEIL

Eric Montesinos-CERN

Ken Baptiste - ALS

Nelson-JLAB

Hans-Rudolf Fitze -PSI

Yoon Kang-ORNL

Special thanks to Barbara Moebes and Paula Callejas-Lynn



U.S. DEPARTMENT OF  
**ENERGY**

# Outline of CWRF Agenda

CWRF 2012 Agenda													
Time	8	9	10	11	12:30	1:30	2	3	4	5	6	8	9
Tuesday	Introduction	Facility Reviews			Lunch	Facility Reviews							
Wednesday	Solid State Amplifier Hot Topic			Discussion	Lunch	BNL RF facilities Tour			Reception-Banquet				
Thursday	IOT Amplifier Hot Topic			Discussion	Lunch	Upgrades: Klystrons and Couplers			New Technology				
Friday	Couplers and cavities			Closeout	Box Lunch								

# ***Agenda for Wednesday 's Tour and Banquet***

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<b>12:00</b>	<b>Lunch at Danfords</b>
<b>01:00</b>	<b>Bus leaves for BNL</b>
<b>01:30</b>	<b>Tours at BNL:</b>
	<b>The National Synchrotron Light Source II (NSLS-II) and the Collider Accelerator-Department(CAD) ERL</b>
<b>04:00</b>	<b>Bus leaves for the Baiting Hollow Farm Winery</b>
<b>04:30</b>	<b>Wine Tasting</b>
<b>05:30</b>	<b>Bus leaves for the Atlantis Aquarium</b>
<b>06:00</b>	<b>Cocktail hour</b>
<b>07:00</b>	<b>Dinner at the Aquarium</b>
	<b>Shark dive !</b>
<b>10:00</b>	<b>Bus leaves for Danfords</b>
<b>11:00</b>	<b>Arrival at Danfords</b>

There is a single bus for all events, so if you wish to go to the Banquet only you must provide your own transportation. There is a list of all who have signed up for the tour and banquet- please check the list at some point and if you have not signed up and wish to do so please sign up by the end of the day

# Shark Dive

- 10 + volunteers have signed up for the shark swim- they have shark logos on their name tags to identify them- greet them during the breaks
- We will chose 2 of these brave souls to swim with the sharks after the Banquet (their last meal?)
- There is a sign up sheet for those who wish to add their name to the list of volunteers- it is not too late!
- We will vote for the two swimmers during this afternoon's coffee break: Put an X next to two of the volunteers names and those with the most votes will swim!





# Enjoy !

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**Schedule for the CVRF 2012 Workshop, May 7-11, 2012**

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00		Breakfast	Breakfast	Breakfast	Breakfast
		Convener:	Jorn Jacob (ESRF)	Daniel Valuch (CERN)	Morten Jensen
8:00		Ali Nassiri (ANL)	Evolution of High Power LDMOS Transistors at NXP Scott Blum	Inductive Output Tube (IOT) Development at CPI - Edward Eisen	High Power RF Distribution with Vector Control for Multicavity Cryomodule Test - Yoon Kang
8:30		Greetings - Ferdinand Willeke / James Rose			Standing Wave Issue in Waveguide Directional Coupler Calibration Process - Nikolai Schweg
8:45			High Power RF Amplifiers Using LDMOS Technology - Yichi (Dave) Zhang	90kW Cw IOT Development at L-3 Communications Electron Devices - Michael Boyle	
9:00		Agenda and Overview James Rose			A New Generation of Arc Detectors for the LHC and Linac4 High Power RF System - Daniel Valuch
9:30		NSLS II RF Systems: Status and Upgrade Plans - Jim Rose	Reserve for discussion	Reserve for discussion	Status of the the S-band RF Power System for the FERMI@Elettra Linac - Alessandro Fabris
10:00		NSLS I: Challenges and Upgrades on a 30 Year Old High Power RF-Systems - Aditya Goel	150kW SSA for ESRF Booster Upgrade - Jean-Paul Abadie	The Diamond Storage Ring IOT-Based High Power Amplifier - Morten Jensen	SRF Cryomodule Construction and Photocathode Prototyping at AES - David Meidlinger
10:30		Coffee	Coffee	Coffee	Coffee
		Francis Perez (CELL)	Eric Montesinos (CERN)	Shigeki Sasaki (Spring8)	James Rose (BNL)
11:00		RF Power Upgrade at Jefferson Lab - Richard Nelson	First Experience at ELBE with the New 1.3 GHz Cw RF-System based on 10kW Solid State Amplifiers - Hartmut Buttig	Testing and Commissioning a new Klystron at the ALS - Lessons Learned - Kenneth Baptiste	Closeout
11:30		Elettra 500-MHz RF Power Plants - Cristina Pasotti	Development at the ESRF of Advanced Solid State Amplifiers for Accelerators - Jorn Jacob	10 Years of Klystron Operation and Improvement in Swiss Light Source - Wolfgang Tron	
12:00		Upgrades, Operational Experience and EM Simulations of the Diamond SR High-Power Amplifiers - Morten Jensen	Developments of High Cw RF Power Solid State Amplifiers at SOLEIL - Ti Ruan	LHC RF Power System. Status, Experience with Nominal Beam, Upgrades during the Long Technical Stop - Erk Jensen	
12:30		Lunch	Lunch	Lunch	Lunch





12:30		Lunch	Lunch	Lunch	Lunch
		Doug Horan (ANL)		Rick Nelson (JLAB)	
1:30		The IPHI 352 MHz RF Source at CEA/Saclay - Abdallah Hamdi	Tour	Short Circuit Energy - Andre Spichiger	
2:00		The SNS MEBT RF Power Amplifier Solid State Upgrade - Mark Midendorf	Tour	Performance and Upgrades of the Advanced Photon Source (APS)352-MHz / 1-MW Klystron Power Systems - Gian	
2:30		RF Power Source and Distribution at 352 MHz for Spoke Cavities for ESS and at FREIA - Rutambhara Yogi	Tour	High-Voltage Power Supply for the ALS Storage Ring RF System - Disconnect Switch Status - Slawomir Kwiatkowski	
3:00		The Advanced Photon Source 352-MHz RF Systems -- A Case for Solid State? - Douglas Horan	Tour	New HOM-Damped Cavities at the ESRF - Jorn Jacob	
3:30		Coffee	Tour	Coffee	
		Convener: Ken Baptiste (LBNL)		Convener: Yoon Kang (ORNL)	
4:00		The European Spallation Source RF System Design - David McGinnis	Bus departs for the Winery	RF Fundamental Power Coupler News - Eric Montesinos	
4:30		Operation Status and Commissioning of four 150 kW SSA on the ESRF Booster - Jean-Maurice Mercier	Wine tasting	Design, Simulations and Conditioning of 500kW C/W FPCs for the ERL SRF Gun at BNL - Wencan Xu	
5:00		C/W RF Systems at the CLS - Jonathan Stampe		Status of the Advanced Photon Source (APS)352-MHz Radio Frequency Test Stand (RFTS) - Gian Trento	
5:30		Current Activities on the RF-System for the Proton Accelerator Facility at PSI - Markus Schneider	Bus departs for the Aquarium	The Cavity for RF Input Coupler Conditioning at SPring-8 - Shigeki Sasaki	
6:00			Cocktail and dinner at Aquarium		
6:30					
7:00	Reception				
10:00			Back to Danfords		

