

# LCWS11 Organization

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WWS-OC Granada (Spain)

September 2011

# WWS: World Wide Study on Physics and Detectors for future Linear Colliders

**INTERNATIONAL WORKSHOP ON FUTURE  
LINEAR COLLIDERS  
LCWS11** GRANADA - SPAIN  
26-30 SEPTEMBER 2011

[WORLDWIDE MEETING COVERING BOTH ILC AND CLIC OPTIONS]  
<http://st-ugr.es/lcws11> lcws11@ugr.es

**LOCAL ORGANIZING COMMITTEE**

F. DEL ABREU - U. GRANADA  
M. CAVALLI-SFORZA - IFAE BARCELONA  
M. GERRADA - CIEMAT MADRID  
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D. KERNU - U. BARCELONA  
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M.G. FOLG - CIEMAT MADRID  
J. FUSTER - IFIC VALENCIA (COCHAIR)  
M. GARRIDO - U. BARCELONA  
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G. HILMERT - U. BERNARD  
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M. LOZANO - CNMIMB BARCELONA  
M. ANJAU - U. GRANADA  
G. RODRIGO - IFIC VALENCIA  
R. RUIZ - IFDA BAHAMONDE (COCHAIR)  
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J. SANDRARD - U. GRANADA  
V. VILA - IFCA SANTANDER

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J. BRAU - U. OSNABR  
F. CORNET - U. GRANADA  
M. DANILOV - DESY  
B. FOSTER - U. OXFORD  
J. FUSTER - IFIC VALENCIA  
R. GOODE - U. BANGALORE  
N. GRAY - SLAC  
A. GUERU - TATA INST. MUMBAI  
H. HABER - U. CALIFORNIA SANTA CRUZ  
W. HILDE - MPI MUNICH  
Y.B. HOSUR - TAIWAN NATL. U.  
J. JARRO - SLAC  
D. KANDEL - U. VICTORIA  
A. KRONFELD - FNAL  
W. LI - IHEP  
A. MIYANOTO - KEK  
H. MURAYAMA - U. TOKYO  
M. OHSUGA - U. CHUGAO  
H. PARK - KYUNGPOOK NATL. U.  
R. PATERLINI - CORNELL  
M. ROSS - FNAL  
A. RUIZ - IFDA BAHAMONDE  
D. SCHULTZ - CERN  
O. SCHULTE - CERN  
M. THOMPSON - U. CAMBRIDGE  
J. THUNER - DESY  
M. TOBE - KEK  
H. YAMAMOTO - U. TOKYO

**INTERNATIONAL ADVISORY COMMITTEE**

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T.S. CHEN - IHEP  
R. CHATTERJEE - IITM  
J.P. DELAHAYE - GERN  
P.D. GUPTA - RRCAT  
R. HAYES - CERN  
S.K. KHAN - BNU  
F.L. LEBERER - INFN  
N. LOCKER - TRIUMF  
D. MACFARLANE - SLAC  
J. MUNCH - DESY  
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M. NIZAKI - KEK  
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M. SHOENET - U. CHICAGO  
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A. SINDHEV - BUCKINGHAM  
G. STAMER - CERN  
S. A. SIZUN - KEK  
D. TADOKORO - MSL  
M. TERNYI - CORNELL  
A. WENDEL - DESY  
H. WU - ANL  
R. YABATA - U. TOKYO

**JOINT ORGANIZING COMMITTEE**

J. BRAU - U. OSNABR  
B. FOSTER - U. OXFORD  
J. FUSTER - IFIC VALENCIA  
R. GOODE - U. BANGALORE  
H. HABER - U. CALIFORNIA SANTA CRUZ  
M. HILDE - MPI MUNICH  
H. MURAYAMA - U. TOKYO  
M. ROSS - FNAL  
D. SCHULTE - CERN  
M. THOMPSON - U. CAMBRIDGE  
M. TOBE - KEK  
H. YAMAMOTO - U. TOKYO

Following IWLC-2010 LCWS11 has a new Conference Organization:

Joint Organizing Committee (JOC) composed by 12 people representing:

- 4 Detector R&D, ILC+CLIC, 3 RG-WWS+CLIC
- 4 Theoreticians
- 4 Accelerator, ILC+CLIC

Program Committee (PC) composed by 30 people:

- JOC (12)
- WWS (15)
- Local Chair and Co-chair (2)
- Additional members to help with regional balance (1)

This organization structure should be reviewed at LCWS11 in Granada.

*“Took some time to set but once it started it has been working rather efficiently. JOC met 2 times PC 3 times”*

# LCWS11Program : Plenary Talks and Topics

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## ✓ Usual ILC+CLIC detector and accelerator reports:

- **Accelerator:** B. Barish, S. Stapnes, Y. Yokoya, J.P. Delhayé
- **Detector R&D:** S. Yamada, M. Thomson, A. White, M. Vos, L. Linssen

## ✓ Regional strategies for future with Linear/Lepton Colliders

- A. Suzuki, D. MacFarlane, T. Nakada

## ✓ LHC results and future prospects

- R. Heuer

## ✓ Physics Implications of LHC results (theory)

- G. Weiglein, M. Peskin

## ✓ ICFA+ILCSC perspectives for Linear Colliders and highlights on future organization post-2012

- A. Suzuki, J. Bagger

# LCWS11 Program: R&D and Physics Parallel Sessions

Sessions			Agreed proposed conveners after meeting 30-June-2011 (PC+JOC)					
			Conveners					
			America		Asia		Europe	
			Theorist	Experimentalist	Theorist	Experimentalist	Theorist	Experimentalist
R&D + Physics	Higgs+EWSB	R&D1	Heather Logan	Tim Barklow	Shinya Kanemura	Yuanning Gao	Sven Heinemeyer	Klaus Desch
	Beyond SM: Susy, Cosmology, Alternative	R&D2	Shufan Su	Bruce Schumm	Seong Youl Choi Shigeki Matsumoto	Taikan Suehara	James Wells Geraldine Servant	Jenny List
	Top/QCD/Looprein	R&D3	Laura Reina	Jae Yu	Saurabh Rindani	Tamaki Yoshioka	Andre Hoang German Rodrigo	Frank Simon
	$\gamma\gamma$	R&D4	Jeffrey Gronberg, Mayda Velasco		Tohru Takahashi, Kingman Cheung		Maria Krawczyk, Valery Telnov	
	Simulation + Detector Performance + Recons.	R&D5	Norman Graf, Graham Wilson		Tanabe Tomohiko, Akiya Miyamoto		David Ward, Frank Gaede	
	Detector Integration, MDI, Polarization	R&D6	Marco Oriunno, Tom Markiewicz		Guiyum Kim, Tomoyuki Sanuki		Karsten Buesser , Matthieu Jorè	
	Tracking+Vertex	R&D7	Bill Cooper, Madhu Dixit		Akira Sugiyama , Yasuhiro Sugimoto		Marc Winter, Jan Timmermans	
	Calorimetry + muons	R&D8	Jose Respond, Andy White		Satoru Uozumi, Tohru Takeshita		Felix Sefkow, Daniel Jeans	

# LCWS11 Program: Accelerator Parallel Sessions

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Acc	Sources	AWG1	W. Gai, T. Omori, Steffen Doebert, A. Variola
	Damping Rings	AWG2	S. Guiducci, M. Palmer, Y. Papaphilippou, J. Urakawa
	Super Conducting RF	AWG3	H. Hayano, P. Pierini, C. Nantista, J. Kerby
	Normal Conducting RF	AWG4	F. Pauer, T. Higo, W. Wuensch
	Beam Delivery	AWG5	L. Gagnon, A. Seryi, R. Tomas
	CLIC Drive beam	AWG6	P- Skowronski, J-B Jeanneret, R. Ruber
	Low emittance - beam dynamics	AWG7	K. Kubo, N. Solyak, A. Latina
	Instrumentation and Technical systems	AWG8	M. Wendt, Phil Burrows, Lars Soby
	Conventional Facilities and Siting	AWG9	A. Enomoto, V. Kuchler, J. Osborne

- **Tip:** The composition of these working groups is very open and they need to have joint meetings with other working groups in many different configurations. This fact requires a very flexible structure of rooms allowing for large and small capacities and if possible a dynamical changeable topology of rooms (being able to merging rooms helps !!)

# LCWS11 Program: Accelerator Parallel Sessions

<b>Miscellaneous &amp; Satellite Meetings</b>	AIDA	M1	Iván Vila
	R&D Linear Collider spin-offs	M2	M. Demarteau (W. Lohman)
	Implications of the 2011 experimental results for physics at future lepton colliders	M3	Michael Peskin, Gudrid Moortgat-Pick
	WWS-OC	M4	Jim Brau, Hitoshi Yamamoto, Juan Fuster
	PEB	M5	Sakue Yamada
	GDE-EC	M6	Barry Barish
	IDAG	M7	Michel Davier
	Preparation for European Strategy for Particle Physics	M8	Steinar Stapness, Brian Foster
	$\mu$ -Collider	M9	R.Lipton
	ILC Tev upgrade and CLIC staging considerations	M10	J. Brau, N. Walker, D. Schulte
	Cost Management	M11	G.F. Dugan
	Program Committee	M12	F. Cornet

- **Tip:** Plan to add a few more which will only be known during the workshop (small number of participants but still an important issue when running 14 parallel sessions !!!)

# LCWS11, dates-working evolution

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## ✓ Discussion for deciding the Organizing Structure and composition:

- ILC+CLIC: Detector R&D + Physics+ Machine
- Several interactions (e-mails) and meetings (teleconference) with WW-OC, GDE and CLIC
- **Tip:** It took till March but maybe it is not needed in next workshop if a decision in this respect before.

## ✓ Once JOC+Program Committee (PC) agreed, setting the program and speakers+conveners

- Meetings with JOC ( 2 + e-mails +doodles ), **tip:** Two/three weeks to set one these meeting
- Meetings with PC (3 + e-mails + doodles), **tip:** Two/three weeks to set one these meeting
- **Tip:** setting an agreed general program by the PC needs about 2,5-3,0 months (for LCWS11 end of may). Not easy to reduce if a reasonable quorum is required for the discussions/decisions.

## ✓ Contacting conveners for parallel sessions and plenary speakers

- Contacting plenary speakers and getting their answers takes long but can be done in parallel with other actions (**tip:** having co-chairs is important).
- Contacting conveners of parallel sessions. At least two/three weeks getting a final conveners' list. **Tip:** the distribution of the work within the WWS regional contacts is essential at this stage. Having a direct participation of the accelerator JOC group is also important.

## ✓ Setting the final program

- Conveners meetings, contacting speakers, setting final program, should take at least two/three months. **Tip:** try to avoid vacation period in between.
- The amount of work in the last two/three weeks is very heavy. **Tip:** try to get the program as much advanced as possible before this period.

# LCWS11 numbers

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- ✓ 365 Participants registered (some didn't show up, others appeared t the last moment)
- ✓ 20 grants awarded (DESY+CERN+CPAN) covering accommodation and fee
- ✓ 31 countries (**tip**:getting VISAs can be an issue)
- ✓ 489 contributions
- ✓ 130 sessions (53 different topics for sessions starting from 8 R&Ds, 9 AWGs, 12 Ms, 3 Concepts )
- ✓ Maximum of 14 parallel sessions in coincidence
- ✓ Audiovisuals
  - The use of audiovisuals is very demanding
  - Our community is addicted to: wireless and webex connections. They are very difficult to satisfy understand by the Conference Centers (they “har” but “don't listen”).
  - **Tip**: unforeseen and additional expenditures may come during workshop
- ✓ Payment at LCWS11 was not optimal due to some restrictions by the agency. Credit Card payment was not allowed at the beginning. This should not happen in normal conditions. For use using a professional agency is important .
- ✓ Students (PhD and last year) helped in the organization. Total 14
- ✓ Public talk by Francois Richard (~400 attendees)
- ✓ Alxia Augier from CERN helped to organize the event. Very important contribution.



# Webex use

	26-Sep.							27-Sep.							28-Sep.								
Granada Congress Palace Halls	08:30-10:00 1.5 hour	10:30-11:00 0.5 hour	11:30-13:00 1.5 hour	14:30-15:30 1 hour	16:30-17:00 0.5 hour	17:30-18:00 0.5 hour	18:30-19:30	08:30-10:00 1.5 hour	10:30-11:00 0.5 hour	11:30-13:00 1.5 hour	14:30-15:30 1 hour	16:30-17:00 0.5 hour	17:30-18:00 0.5 hour	18:30-19:30	08:30-10:00 1.5 hour	10:30-11:00 0.5 hour	11:30-13:00 1.5 hour	14:30-15:30 1 hour	16:30-17:00 0.5 hour	17:30-18:00 0.5 hour	18:30-19:30		
Auditorio Manuel de Falla (547 pax)	LCWS11 Plenary	LCWS11 Plenary David Macfarlane, 13:00	LCWS11 Plenary	LCWS11 Plenary	Plenary	Implications of the 2011 experimental results for physics at future lepton colliders		RAD0+AWG5	RAD0+AWG5					RAD0	R.C. Talk/ upgrade and CLIC staging considerations	RAD0	RAD0		RAD0			Preparation for European Strategy for Particle Physics	
Andalucía 1 (70 pax)								RAD3		RAD5						RAD3			RAD5				
Andalucía 2 (90 pax)								RAD7		RAD7						RAD5+RAD6			RAD6				
Andalucía 3 (126 pax)								R&D1		R&D1						R&D1			R&D1				
Seminario 1 (10 pax)										AWG6						AWG6			AWG3				
Seminario 2 (10 pax)										AWG9						AWG9			AWG9				
Seminario 3 (10 pax)										AWG3						AWG1			AWG1				
Seminario 4 (10 pax)										AWG8						AWG8			AWG8				
Seminario 5 (10 pax)										AWG7						AWG7			AWG7				
Seminario 6 (37 pax)										AWG1+AWG2						AWG2			AWG2+AWG5+AWG8				
Seminario 7 (10 pax)										AWG3						AWG3			AWG3				
Seminario 8 (30 pax)										AWG3						AWG3			AWG3				
Sala videoconferencia (8 pax)	Permanent Conference Secretariat & Logistics							Permanent Conference Secretariat & Logistics							Permanent Conference Secretariat & Logistics								
Sala de Juntas (15 pax)			GDE-EC							GDE-EC									WWS-OC				Cost Management
Sala VIP (50 pax)								IDAG		IDAG						IDAG			IDAG				
Sala de prensa (50 pax)								AWG4		AWG4						AWG3+AWG4			AWG3+AWG4				

	29-Sep.							30-Sep.						
Granada Congress Palace Halls	08:30-10:00 1.5 hour	10:30-11:00 0.5 hour	11:30-13:00 1.5 hour	14:30-15:30 1 hour	16:30-17:00 0.5 hour	17:30-18:00 0.5 hour	18:30-19:30	08:30-10:00 1.5 hour	10:30-11:00 0.5 hour	11:30-13:00 1.5 hour	14:30-15:30 1 hour	16:30-17:00 0.5 hour	18:30-19:30	
Auditorio Manuel de Falla (547 pax)	R&D0	ILD	ILD				LC R&D Spin-offs	Physics+RAD Summary Session	LCWS11 Plenary	LCWS11 Plenary				
Andalucía 1 (70 pax)	R&D1+RAD4													
Andalucía 2 (90 pax)	AWG1+AWG4+AWG6+AWG7	AWG1+AWG4+AWG6+AWG7	AWG1+AWG4+AWG6	AWG1+AWG4+AWG6										
Andalucía 3 (126 pax)	R&D7	SID	SID											
Seminario 1 (10 pax)														
Seminario 2 (10 pax)	AWG9	AWG9	AWG9	AWG9										
Seminario 3 (10 pax)														
Seminario 4 (10 pax)	AWG5+AWG8+RAD6	AWG5+AWG8+RAD6	AWG5+AWG7	AWG5										
Seminario 5 (10 pax)														
Seminario 6 (37 pax)	AWG2	AWG2	AWG2	AWG2										
Seminario 7 (10 pax)														
Seminario 8 (30 pax)	AWG3	AWG3	AWG3	AWG3										
Sala videoconferencia (8 pax)	Permanent Conference Secretariat & Logistics							Permanent Conference Secretariat & Logistics						
Sala de Juntas (15 pax)			GDE-EC											
Sala VIP (50 pax)				FEI										
Sala de prensa (50 pax)	R&D3												AWG7+AWG8	

- **Tip:** Try to have a clear policy before starting saying “yes” to the first group asking for connection.
- **Tip:** Independent on how many times you check webex connection some will fail when you need them. It is important to have checked before anyway !!!

# Summary

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- It has been a lot of fun
- We thank all JOC members, PC members and all conveners, for their help and contribution and implication
- It just took some work !!