

Table of Contents

This is the TWIKI page of ISOTDAQ2016 in Rehovot.....	1
Related Web sites.....	1
To be discussed in the kick off meeting.....	1
Action items.....	1
Issues for later.....	2
Teachers and tutors - Availability for ISOTDAQ2016.....	2
Candidate tutors.....	3
Overview of lectures.....	3
Candidate lectures.....	4
Candidate labs.....	4
Status of the labs.....	4
Availability of tutors.....	4
Exercise experts and status.....	5
Availability of equipment.....	5

This is the TWIKI page of ISOTDAQ2016 in Rehovot

The main purpose of this Twiki is to share information relevant for the organization of the school

Related Web sites

School home page: <http://indico.cern.ch/e/isotdaq2016>

SharePoint site: <https://espace2013.cern.ch/isotdaq-sharepoint>

To be discussed in the kick off meeting

- Industrial participation (sponsors)
- Candidate tutors
- Candidate lecturers
- Changes to the program (taking into account the feedback from previous schools)
- Advertising channels

Action items

Item	target date	to be done by	Remarks
Fix the final date and duration of the school	1 August	Local organizers	-
Update the new e-group "isotdaq-staff@cern.ch"	1 May	Markus	done
Create a Web site	1 August	Local organizers	Includes a tentative schedule (indico)
Create a poster	1 August	Local organizers	-
Establish a financial plan	1 July	Local organizers	to be refined during the year
Look for sponsors	-	Markus, LOC, volunteers	PH, LHC experiments, NI?
Open CERN conference account	1 August	Markus	transfer credit from 2015 to the new code
Collect channels for making publicity	1 August	All	The school should be advertised in particular in the Middle East
Start publicity campaign	1 August	All	-
Confirm the availability of the lecturers and tutors	1 October	Markus	TBD
Look for new tutors to fill the holes	1 October	Markus and Lorne	-
Look for new lecturers to fill the holes	1 October	All	-
Organize training of new tutors	1 October	Markus	-
Set up the exercises by using local material	15 October	LOC	experienced tutors to provide help
Shipping of material to Rehovot		Markus	

	15 November	What will be shipped depends on the status of the locally set up exercises. According to S. Krattinger shipping (land based) takes 3 weeks
--	----------------	--

Issues for later

- Think about the home-work (C programming) and how to make sure that all students do it

Teachers and tutors - Availability for ISOTDAQ2016

Name	Lecturer 2015	Exercise tutor 2015	Availability 2016	Arrival and departure dates	Funding
Ozgur Cobanoglu (CERN / PH-ESE-ME, now with iSKO Technology Development, SANKO Holding)	YES	NO	YES	01.02 - 03.02	SANKO
Dominique Gigi (CERN/CMS)	NO	YES	YES	24.1 - 3.2	CMS
Markus Joos (CERN /ATLAS)	YES	YES	YES	21.1. - 4.2.	CERN
Enrico Pasqualucci (INFN/ATLAS)	YES	YES	YES	23.1 - 3.2	INFN
Francesca Pastore (RHUL/ ATLAS)	YES	YES	YES	24.1 - 3.2	travel paid by home Institute
Hannes Sakulin (CERN/CMS)	YES	YES	YES	28.1. - 3.2.	CERN
Christophe Haen (CERN)	NO	YES	YES	24.1 - 4.2	ISOTDAQ
Luca Galli	YES	YES	YES	23.1 - 3.2 / Inv letter OK	Travel INFN - hotel ISOTDAQ
Andrea Negri (INFN/ATLAS)	YES	YES	YES	23.1 - 1.2	INFN
Kostas Kordas	YES	YES	YES	TBD	Travel: home institute Hostel ISOTDAQ
Joschka Lingemann	YES	YES	YES	24.1.-31.1.	Group: flight ISOTDAQ hotel & subsistence
Erkcan Ozcan	NO	NO	YES	TBD	TBD, partially Bogazici
Niko Neufeld	NO	NO	YES	30.1 - 2.2 (could arrive 29.1 if needed)	CERN
Bernard Kolobara	NO	NO	YES	24.1 - 4.2	CERN
Costin Gament	NO	NO	YES	24.01 - 04.02	CERN
Mauricio Feo	NO	YES	YES	23/jan - 3/feb	ISOTDAQ
Roberto Ferrari	NO	NO	YES	26.1 - 3.2	INFN
Grzegorz Jereczek	NO	NO	YES	23.1 - 4.2	CERN
Manoel Barros Marin	NO	NO	YES	22.1 - 4.2	CERN
Stefan Ritt	NO	NO	YES	26.1. - 31.1.	home institute (travel) and ISOTDAQ (accommodation)
Gokhan Unel	NO	NO	YES	24.1. - 31.1.	TBD
Martin Purschke	NO	NO	YES	TBD	ISOTDAQ: flight Home institute: subsistence
Serguei Kolos	NO	NO	YES	28.1 - 2.2	TBD

Pawel Szostek	NO	NO	YES	31.1/1.2-2.2	CERN
Florian Brunbauer	NO	NO	YES	23.1 - 3.2	ISOTDAQ
Paolo Durante	NO	NO	YES	TBD	TBD

Candidate tutors

Name	Background	Interested in exercise	financial status
Marco Venturini	ISOTDAQ2015	8	unclear
Florian Brunbauer	ISOTDAQ2015	7	unclear
Evgenia Voulgari	ISOTDAQ2015	2	not available
Saime Sarikaya	BL4S	TBD	unclear (perhaps partial support from Bogazici)
Marcelo Vicente	ISOTDAQ2015	FPGA (ex13)	UNCLEAR

Overview of lectures

Number	Duration	Day	Title (Rio)	Lecturer (Rio)	Lecturer (Rehovot)
1	60		Introduction to detector readout	Rainer Schwemmer	Gokhan Unel
2	60		Introduction to data acquisition	Andrea Negri	Andrea Negri
3	60		DAQ hardware	Andrea Negri	Andrea Negri
4	60	EEE	Waveform Digitizing and Signal Processing	-	Stefan Ritt
5	60		Programming for today's physicist and engineers	Joschka Lingemann	Joschka Lingemann
6	60	29.1, 31.1, 1.2	Design and implementation of a monitoring system	-	Serguei Kolos
7	60		Introduction to trigger	Francesca Pastore	Francesca Pastore
8	60	EEE	Introduction to VME bus	Markus Joos	Markus Joos
9	60	EEE	Modular electronics	Markus Joos	Markus Joos
10	60	EEE	Trigger hardware	Francesca Pastore	Francesca Pastore
11	90		Introduction to the Design of Full-Custom Front-End & Data Transmission ASICs	Ozgur Cobanoglu	Ozgur Cobanoglu
12	90		Practical aspects of computer architecture for data acquisition	--	Niko Neufeld and Pawel Szostek
13	60	EEE	LabView	Ravi Marawar(NI)	NI Israel. Speaker to be defined
14	60		CERN Scientific Program	Livio Mapelli	New title: PCIe. New Speaker: Paolo Durante
15	60		DAQ software	Enrico Pasqualucci	Enrico Pasqualucci
16	60		TDAQ design: from test beam to medium size experiment	Sergio Ballestrero	Roberto Ferrari
17	60		The TDAQ System of the MEG Experiment	Luca Galli	Luca Galli
18	60		Threaded Programming	Giuseppe Avolio	Erkcan Ozcan
19	60	31.1, 1.2 or 2.2.	TDAQ for the LHC experiments	Giovanna Lehmann-Miotto	Niko Neufeld
20	60	29.1. or later	Introduction to FPGAs	Hannes Sakulin	Hannes Sakulin
21	60			Jean Rinkel	Martin Purschke

			An Introduction to Medical Imaging Devices		
22	60	EEE	Advanced FPGA Programming	Andrea Borga	Manoel Barros Marin
23	60		Optical links	Andrea Borga	Paolo Durante
24	60	EEE	Microcontrollers	Dan Savu	Mauricio Feo
25	60		Intelligent triggering: pattern recognition with Associative Memories and other tools	Kostas Kordas	Kostas Kordas
26	60		A scalable, portable DAQ system design	-	Martin Purschke
27	60	Evening lecture	Micro-archeology	-	PI of the Weizmann Micro-archeology
--	??		DAQ with SW trigger for a Dark Matter Search	-	March Schumann / Daniel Coderre (BERN)

Candidate lectures

Title / subject of the lecture	Potential speaker	supported by
C++ / threading	Pawel Szostek (from OpenLab) for multi-threading architecture	-
computing architectures	Pawel Szostek (from OpenLab)	Francesca, Enrico
Calorimeter Triggers	Sridhara Dasu (CMS / Wisconsin)	-
Concepts of object oriented programming	Daniel Lellouch or colleague	-
DAQ for a Dark Matter Search	someone from Xenon expt DAQ group	-
Some of: Programming / data communication / Event and Buffer management / simulation, algorithm implementation in FPGA using external math simulator, DAQ system integration	Rotem Gazit (rgazit@aapsincNOSPAMPLEASE.com) who did work at Triumf/AAPS	-
PCIe	Paolo Durante	Niko, Markus
Micro-archeology	PI of the Weizmann Micro-archeology	Markus, Niko, Enrico (nice evening lecture)

Candidate labs

- Rogierio Iope (Rio) will propose a lab
- Hendrik Jansen (DESY) may be able to build a lab based on a beam telescope

Status of the labs

Availability of tutors

Lab	Description	Tutors 2015	Confirmed Tutors 2016	Orphaned sessions (estimation)
1	VMEbus programming	Joos, Galli	Joos, Galli	0

2	NIM	Pastore, Negri	Pastore, Negri	0
3	NIM & scintillator	Kordas and Gilvan Alves (CBPF)	maybe Kordas	0 / 13
4	Muon DAQ	Joos, Galli, Pasqualucci	Joos, Galli	0
5	FPGA	Gigi	Gigi	0
6	MicroTCA	Sakulin, Lingemann	Sakulin, Lingemann	0
7	LabView	Geraldo Cernichiaro (CBPF)	Brunbauer	0
8	ADCs	Borga	Barros Marin	0
9	Network programming	Batraneanu, Savu	Jereczek	0
10	Micro controller	Mauricio Féo (CBPF)	Féo	0
11	Storage systems	Haen, Schwemmer, Campora Perez	Haen	0
12	Control systems	Avolio, Lehmann-Miotto	Kolobara, Gament	0
13	FPGA & LabView	NI	NI (4 sessions), Gurbuz (9 sessions)	0

Exercise experts and status

Lab	Description	CERN experts	Rehovot experts	status of the preparations
1	VMEbus programming	Joos	TBD	-
2	NIM	Pastore	TBD	-
3	NIM & scintillator	Joos	TBD	-
4	Muon DAQ	Joos	TBD	-
5	FPGA	Gigi	TBD	-
6	MicroTCA	Sakulin	TBD	-
7	LabView	--	TBD	-
8	ADCs	Alt, Borga	TBD	-
9	Network programming	Savu	TBD	-
10	Micro controller	Feo	TBD	-
11	Storage systems	Haen, Schwemmer	TBD	-
12	Control systems	Lehmann Miotto	TBD	-
13	FPGA & LabView	National instrument	TBD	-

Availability of equipment

The lists items for the exercises that will have to be provided is on the ISOTDAQ sharepoint:
<https://espace.cern.ch/isotdaq-sharepoint/Shared%20Documents/listOfSupplies.xlsx?Web=1>

This topic: Sandbox > DaqSchool2016

Topic revision: r116 - 2016-01-26 - PawelSzostek



Copyright &© 2008-2021 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.

or Ideas, requests, problems regarding TWiki? use Discourse or Send feedback