

Welcome !!!

to the first

DITANET



School on Beam Diagnostics

C.P. Welsch



Outline - Joint Session

- Introduction of DITANET trainees to SB
- Rights and obligations
- Trainee representative in the Steering Committee
- Questions and Answers

DITANET Trainees

- Ziad Abou-Haidar (CNA, Lebanon)
- Thomas Aumeyr (RHUL, Austria)
- Benjamin Cheymol (CERN, France)
- Janusz Harasimowicz (U Liverpool, Poland)
- Konstantin Lekomtsev (RHUL, Russia)
- Nirav Y Joshi (RHUL, India)
- Maja Olvegård (CERN, Sweden)
- Massimiliano Putignano (U Liverpool, Italy)
- **Marion Ripert (HIT, Belgium)**

Selection Criteria

- Excellence.
- Selected through international recruitment process
- The very best candidates for our individual research projects

- Network with other fellows !
- Be a part of the network - not a *lone rider*

The 2007 MC ITN Call cont'd

- Number of ESRs and ERs: ~1.220
- Number of Person-months: ~ 35.500 (!!!)

You are part of a very special community !

"Boundary Conditions"

- You are **Marie Curie Fellows**
- Research is a **career**
 - Pension, full social security, maternity leave etc.
- Financial situation
- Responsibility towards the network
 - Work within DITANET // FP7 => Show it !
Advertise it ! Reports & questionnaires !
 - *Supported by the EU under contract PITN-GA-2008-215080*

Questionnaires

Three types of questionnaire to be submitted by MCA-fellows to assess integration into the research environment & training, career progress, etc., at three different stages of their fellowships:

- Mid-term questionnaire (@ Mid-term review)
- Evaluation questionnaire (@ end of fellowship)
- Follow-up questionnaire (2 years after fellowship)

Contractual obligation of each beneficiary to ensure that each researcher completes ALL questionnaires, provided by the Commission (Art.III.2.2).

Career Development

- **Structured training**
 - Personal **Career Development Plan**
 - Designed with supervisor at the **beginning** of the fellowship
 - **Training needs** including complementary skills
 - Scientific objectives
 - **Report on success** of the objectives
- **Career Exploratory Allowance**
 - Fixed amount of **€2000**
 - For each researcher with a stay of **at least one year**
 - To be used for **your needs**

Trainee Representative 2009/2010

- Approached by Steering Committee

Maja Olvegård (CERN, Sweden)

- Your "*voice*". (Confidential) contact person.
- Address any problem early on !
- Make suggestions for improvement, be active !
- New election next year.

Questions and Answers



Information

- FP7 Marie Curie Webpage
 - <http://ec.europa.eu/mariecurieactions>
- Marie Curie Fellows Association
 - <http://www.mcfa.eu>

Outline - Meeting of SB

- Introduction of new associated partners
 - U Maryland (*S. Bernal*)
 - LBNL (*M. Kireef Covo*)
 - U Dundee (*Jonathan Phillips*)
- Review of activities
 - Recruitment, advertising strategy
 - Declaration of Conformity (SESAM)
 - Open positions
 - Information on Reports

Project History

- Started officially 1.6.2009
- Contract signed on 29.8.2009
- Money received on 22.9.2009
- Contract received 2.10.2009

- Transfer initiated on 4.10.2009
 - SC, all partners, old and new coordinator and Project Officer agreed
 - Implementation in Brussels still ongoing...

New Associated Partners

Indication of the success and evolution of DITANET



Summary of U Maryland (Institute of Research in Electronics and Applied Physics) Expertise in Field of Beam Diagnostics

Long standing experience in training graduate students at the Univ. of Maryland Electron Ring and other accelerator in new diagnostic techniques.

Development of new diagnostics for accelerator and FEL efforts at JLAB, PSI/XFEL, LCLS (SLAC), ANL and FNAL using OTR, COTR, CTR, ODR, CDR, OSR and OER.

Particular interest in developing optical phase space techniques based on passive and active masks for use at UMER as well as at JLAB for halo studies.

Interested in carrying out research within large international collaboration and exchange/hosting of students and postdocs.

Open to receive early stage and experienced researchers from within the DITANET consortium to be trained at U Maryland.

Post collaborations include

Lawrence Berkeley, Lawrence Livermore, Brookhaven and Los Alamos National Laboratories, Princeton Plasma Physics Laboratory, Northern Illinois University, Universidade Federal do Rio Grande do Sul in Brazil, Kharkov Institute, Ukraine, Nuclear Physics Institute Tomsk Polytechnic University, Tomsk, Russia; Yerevan Physics Institute, Yerevan, Armenia.

Specific Accelerator Diagnostics Activities

I. Incoherent OTR and ODR Diagnostics

Personnel: Dr. Ralph Fiorito, Dr. Anatoly Siskvarunets; MSE Graduate: Michael Holloway

1) OTR-ODR emittance diagnostics

The diagnostics group at UMD has developed a number of OTR-ODR interferometers which are capable of measuring the emittance of relativistic electron beams over the range of 0.1-5 mm mrad and energies of 8 to several hundred MeV. These devices have been developed for use at Argonne National Laboratory's Advanced Wakefield Accelerator and the Thomas Jefferson National Laboratory as well as other moderate to high energy accelerators.



University of Dundee

University of Abertay Dundee

Summary of Dundee Expertise in the Field of Beam Diagnostics

The Accelerator Beam Diagnostics Group at Dundee is a long-standing collaboration between Dundee and Abertay Universities and the STFC Daresbury Laboratory. The group has been involved with free-electron laser (FEL) research since its pioneering UK activities at Glasgow University's Kelvin Laboratory starting in 1982, and has research collaborations with the FELIX facility in The Netherlands, Stanford University and SLAC in California, DESY FLASH in Hamburg, and the Alpha-X Project at Strathclyde University in the UK (among others). It has strong research contacts with ASTeC and the Cockcroft Institute at Daresbury, and has been involved in developments of diagnostics for both ALICE (formerly ERL/P) and the NLS.

Over this extended period we have been involved in free-electron laser physics and instrumentation, including diagnostics for electron position, energy spectrum and longitudinal bunch profile for femtosecond beams. This includes the design and construction of multi-channel electron spectrometers (both high-resolution and broadband) utilising transition radiation and conventional (e.g. YAG) viewscreens, gated CCD cameras and detectors. Recent work has led to the measurement of the shortest electron beam bunches (c 60 fs) at FLASH using advanced electro-optic techniques, and the extension of these techniques from Ti:S lasers to fibre lasers, and their utilisation as beam bunch arrival time detectors and bunch timing systems.

The group has long-standing experience in training graduate students at the University of Dundee in new diagnostic techniques (examples as above) and is currently trying to fill a CASE studentship in this area.

We are interested in carrying out research within a large international collaboration such as DITANET. Past collaborations include FP6 collaborations in free-electron laser physics, our collaborations with DESY FLASH and SLAC, the Alpha-X Project (2003 - 2011) at the University of Strathclyde, and several projects under the UK International Linear Collider Collaboration (IC-ABD) since 2001.

We are very willing to receive early stage or experienced researchers from within the DITANET consortium to be trained with the University of Dundee, although the current availability of experimental resources means that any such candidate(s) may well be accommodated as part of our group at the Daresbury Laboratory/ Cockcroft Institute.

Recruitment

- All positions were advertised in CERN Courier (2x), Physics World and Eracareers.
- Letters and posters to top 50 Universities worldwide, all German Universities, and to all partners.
- Added in national PhD and Postdoc project data bases where communicated.
- In addition, each institute should use normal advertisement channels, exploit existing links, etc.
- Up to now: 9/20 positions filled. (9/17 ESRs)

ESR Recruitment

- Slow (if any !) input in google form
 - Not possible to inform applicants about outcome.
- Candidates were never contacted, scientific contact not clear, etc.

Your institute entered into a contract ! Obligation to provide training.

Failure to do so will be seen as bad management by respective institute (EC) ! Consequences !

ESR Recruitment

- Now: **Monthly dead lines** for applications.
- Use all existing contacts !
- In case you have problems with your projects/supervision/... communicate these problems **as early as possible !**

Project Assessment and Monitoring

- Via evaluation of Reports
 - Progress report
 - Periodic report
 - Final report
- Via Mid-term Review procedure
 - Mid-term progress report
 - Mid-term assessment questionnaires
 - Mid-term review meeting
- Assessment of questionnaires
 - Evaluation questionnaire (at the end of fellowship)
 - Follow-up questionnaire (2 years after fellowship)
 - Frequent contacts/interactions with coordinator

Reporting

Reports	within 30 days after 12 months	at least 30 days before Mid-Term Review	within 60 days after 24 months	within 30 days after 36 months	within 60 days after 48 months	within 30 days after Final payment
Progress report (by CO)	√	√		√		
Periodic report:						
– Periodic report (by CO)			√		√	
– Financial Statement (Form C) (by each beneficiary)			√		√	
– Summary Financial report (by Coordinator)			√		√	
– Certificates on Financial Statement (if required)			√		√	
Final Report (by CO)					√	
Distribution report (by CO)						√

Progress Report

- To be submitted within **30 days** after **12 months** & **36 months** of project. NO financial report required. Report is prepared by Coordinator only.
 - Pre-filled general part (incl. contract & coordinator's details) with some editable fields
 - “Contract deliverables update” – 2 tables pre-filled with GPFs data for recruitment & international conferences/events
- Free text sections (to provide necessary explanations)
- Attachments (possibility to attach any useful information on project progress)

Mid-Term Review *(Feb/Mar 2010 ?)*

- **2 months** before the date of Mid-Term Review
 - Project Officer communicates to coordinator modalities of the project review
 - Coordinator must agree the date, place and agenda of MTR with Project Officer
- **1 month** before the date of Mid-Term Review
 - Updated Progress report covering period from beginning of the project till date of MTR must be submitted via SESAM by Coordinator
- **2 weeks** before Mid-Term Review meeting
 - Mid-Term Assessment questionnaires must be filled in SESAM by all recruited researchers

ftp://ftp.cordis.europa.eu/pub/fp7/docs/itn_reporting_guidelines.pdf

Declaration of Conformity

- To be submitted via **SESAM** by each beneficiary for each **recruited** researcher to Coordinator
- Coordinator transmits the Declaration on Conformity to the Commission
- Declaration on Conformity is required ASAP after appointment of researcher
- Print-out copy of Declaration on Conformity must be duly **signed by both** researcher & host institution and sent per post to the Commission

Coffee !



Outline - 2nd part

- Planning of Secondments
- Future Schools (Dates, Duration,...)
- DITANET Prize (where to announce, sponsors, etc.)
- DITANET web page and newsletter
- Mid term review meeting (Location, Time)
- Q&A's

Secondments

- Already planned in the initial proposal
 - Contact partners, arrange for dates, make sure plan is closely followed.
- Establish contact to new associated partners, look for synergies. Include them in training.
- Look for opportunities beyond initial DITANET program.

Future Schools

- 2nd School (advanced) on beam diagnostics.
 - Stockholm - March 2011 !?!
- School on Complementary Skills
 - Liverpool, March 2010
 - Extend to five days ?

Web page and Newsletter

- <http://www.liv.ac.uk/ditanet>
 - Setup presently realized, ready from Mid April
- Help to keep it interesting, send information !
- Newsletter will start this summer - input required !
 - Delayed (few trainees in 2008, no input so far,...)
- First year activities: PAC 2009 - provide information !

DITANET Prize

- A lump sum of 1 k€ to a scientist in the first five years of his/her career.
- Awarded annually.
- Where to advertise ?
 - PAC / DIPAC / Journals ?
 - Deadline for nominations: 30.6.2009 ?
- Where to award ?

Financial Issues

- Admin-Training provided at CERN (*only HIT, RHUL*)
- Make sure that you know MC rules as well !
- Accounting at your institute might not follow EU regulations.
- No Training ==> No Money ! Fines are possible !

Mid Term Review

- Original Idea: Brussels. OK ?
- Two days ?
- Date ? *(This year ? Combine with School on Complementary Skills at UoL, i.e. reduce "down time" of trainees - March 2010 ?)*

Questions and Answers



Thank you very much
for coming.

See you all in Brussels next year !
Now: Industry Session !

