

Welcome !!!

to the first

DITANET



School on Beam Diagnostics

C.P. Welsch

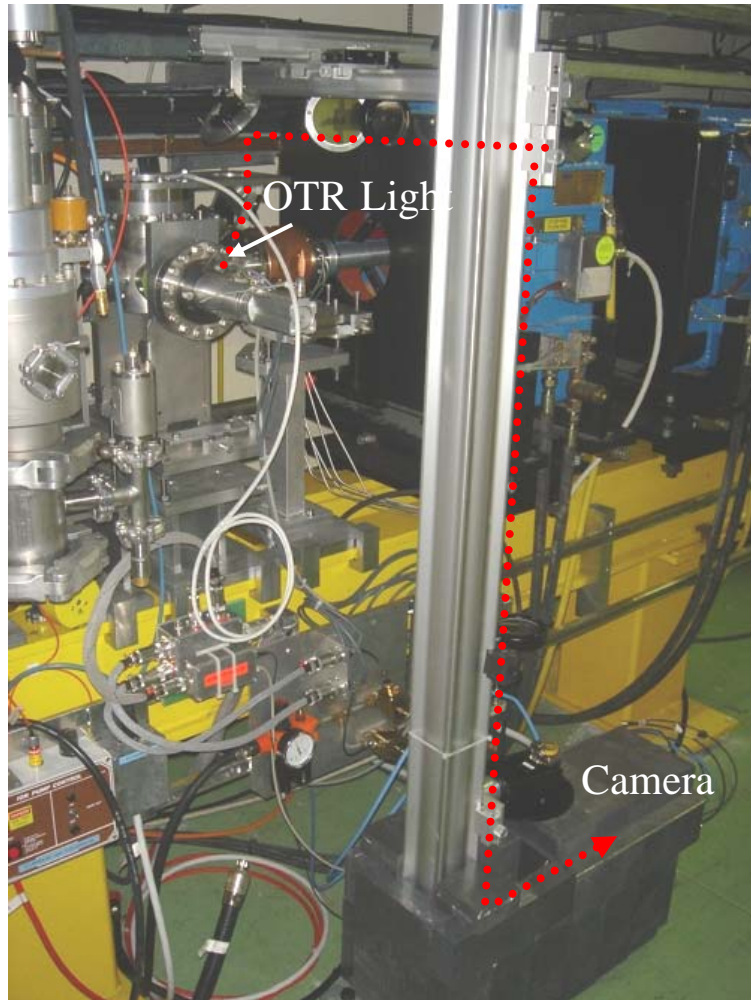


Outline

- What is DITANET ?
 - Motivation
 - The Consortium
 - The Network's Training program

- This School
 - What we will cover this week
 - Practical information

Motivation: A „typical“ Monitor



- Material sciences
 - Thermodynamics
 - Electro-Magnetism
 - Optics
 - Mechanics
 - Electronics
 - Nuclear Physics
 - ...
- ➡ Multi-disciplinary field !

What is DITANET ?

- One of the largest Marie Curie Initial Training Networks ever funded by European Union !
- Aim: Training young scientists.
- Gives industry an important role.
- Allows for inter-sectorial collaboration.
- Recognized importance of beam diagnostics at European level !

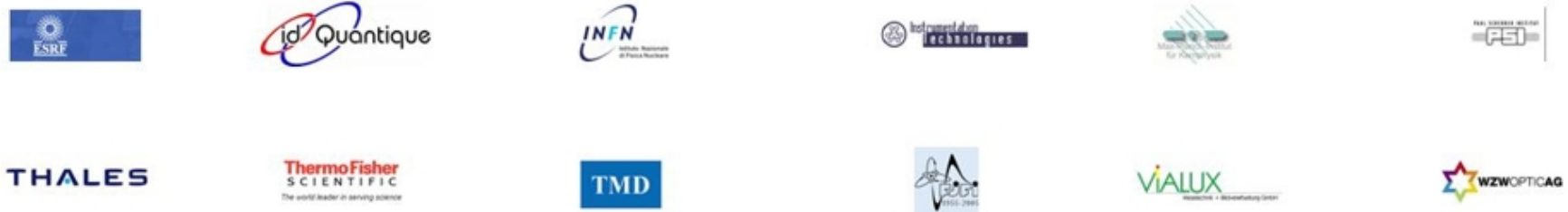
(in physics top 11, 2007 – under extreme competition)

The DITANET Consortium

Network Participants



Associated Partners



+ new partners joined in...more later this week !

Including Partners From Industry

Full Network Partner	Offer research training & Recruit eligible researchers	Level 1
Associated Partner	Provide research training, complementary skills courses , (communication, enterprise cycles, innovation, IPR, ...) secondments	Level 2
	Member of the Supervisory Board : definition of skills requirements for targeted researchers	Level 3

The 2007 MC ITN Call

- Funding for **20 fellows** (17 ESR and 3 ER)
- One of the **largest MC networks** ever funded (1.5 – 4.5 M€); for sure largest in beam diagnostics.
- Gives **industry an important role** in training the next generation of scientists !
- Allows for true **intersectorial collaborations** !
- **Recognized importance of beam diagnostics** in physics at European level ! (in top 11, 2007 – under extreme competition)

What are our Goals ?

- Become a **real network**
 - Close and fruitful collaboration
 - Sharing of best practice
 - Exchange of people
- Push (and advertize) the field „beam diagnostics“ throughout 4 years
- **Improve the training** of young researchers, find and establish new methods
- Particular focus on including **industry-relevant** aspects

DITANET: Training

- Local training by host
- **Network-wide schools** on diagnostic techniques
- Inter-network exchange of researchers
- Secondments to partners from industry
- Training in complementary skills

 Motivation: *Ideal* Training.

This Week:

Time	Monday	Tuesday	Wednesday-RAL	Thursday	Friday
8:30		Definition of Particle Beams <i>(C.P. Welsch)</i>	<i>Board coaches</i>	Emittance <i>(G. Blair)</i>	Special Session <i>- only for DITANET trainees -</i>
9:30		Current <i>(J.C. Denard)</i>	Transverse Beam Profile 1 <i>(E. Bravin)</i>	Position I <i>(P. Forck)</i>	Part. Detection <i>(A. Drouart)</i>
10:30					
11:00		Energy <i>(S.Bernal)</i>	Transverse Beam Profile 2 <i>(E. Bravin)</i>	Position II <i>(P. Forck)</i>	e ⁻ cloud Diagnostics <i>(M. Covo)</i>
12:00					
12:00		Longitudinal Beam Profile I <i>(T. Lefèvre)</i>	Beam Loss <i>(Kay Wittenburg)</i>	Tune <i>(F. Zimmermann)</i>	Industry I <i>(Introduction, H. Smith, A. Beunas)</i>
13:00					
14:30	Welcome / Introduction DITANET	Study Session <i>split in smaller groups</i>	Visits	Study Session <i>split in smaller groups</i>	Industry II <i>(V. Höfling, T. Chapman, C. Bocchetta)</i>
15:30	Introduction to Accelerators I <i>(H. Wiedemann)</i>	Longitudinal Beam Profile II <i>(P. Karataev)</i>		Poster Session	Conclusion
16:30					
17:00	Introduction to Accelerators II <i>(H. Wiedemann)</i>	Seminar: Appl. of Synchrotron Light <i>(H. Wiedemann)</i>		Seminar: Acc. for medical applications <i>(A. Peters)</i>	
18:00					

Practical Information

- Internet (*in Auditorium, Atrium, Hub*)
 - First name: ditanet
 - Last name: conference
 - Password: ditanet

- Tonight @ 18:00: RECEPTION !

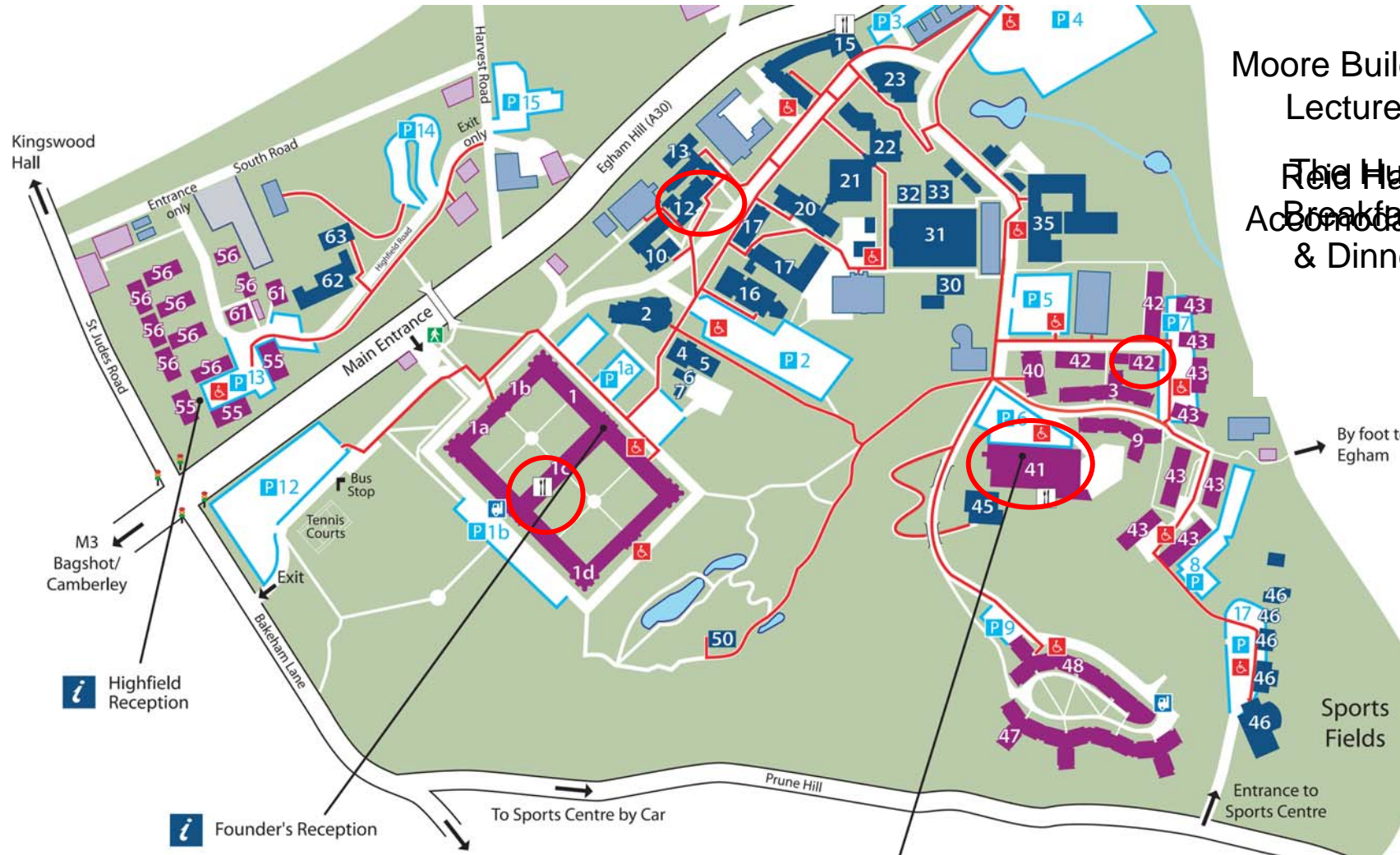
- In case of problems: +44-75-51 91 48 31.

Campus Map

Founder's Building
Lunch

Moore Building:
Lectures

The Hub:
Accommodation
& Dinner



Final Remarks

Most lecturers stay during the week: Don't be shy !

Network. Discuss with other participants !

Enjoy your week !