

# QIPC Cluster Review Meeting

Paris, March 3-7, 2008. France

Quantum Information Processing and Communications

## Cluster Review Meeting and QIP Day

Institut Henri Poincaré, Paris, France

This meeting is dedicated to the memory of Antonella Karlson

Organized by the FET QIPC Proactive Initiative

in collaboration with the Projects SCALA, QAP, EuroSqip, QUROPE

Local organization provided by the IP SCALA



# PROGRAM OF THE WEEK

|                           |                | <b>Hermite Conference Room</b> | <b>Room 201</b> |
|---------------------------|----------------|--------------------------------|-----------------|
| <b>Monday, March 3</b>    | Morning        |                                |                 |
|                           | Afternoon      | Review SCALA                   | Review QICS     |
| <b>Tuesday, March 4</b>   | Morning        | Review SCALA                   | Review QUIST    |
|                           | Afternoon      | Review SCALA                   | Review EQUIND   |
| <b>Wednesday, March 5</b> | <b>All day</b> | <b>QIP Meeting</b>             |                 |
|                           | <b>Evening</b> | <b>Conference dinner</b>       |                 |
| <b>Thursday, March 6</b>  | Morning        | Review QAP                     | Review EuroSQIP |
|                           | Afternoon      | Review QAP                     | Review EuroSQIP |
| <b>Friday, March 7</b>    | Morning        | Review QAP                     | Review EuroSQIP |

## PROGRAM OF THE DAY

- 9:00-9:45 **Introduction and update on EC activities (FET Unit, ISTAG)**  
*P. Grangier, W. Boch, E. Giacobino*
- .....
- 10:10-11:40 **International session (first part)**  
*D. Loss, E. Polzik, discussion with invited non-EC speakers :  
C. Marcus (USA), D. Berkeland (USA), S. Tarucha (Japan)*
- .....
- 13:30-15:05 **EC-level community initiatives**  
*ERC Grants, QIPC Strategic Report,  
Consultation Workshop, Coordination action QUROPE*
- .....
- 15:30-16:45 **Scientific highlights from the three Integrated Projects**  
*EuroSQIP, QAP, SCALA*
- 16:45-17:45 **International session (second part)**  
*Video conferencing with R. Laflamme, open discussion*
- 17:45-18:00 **Concluding remarks (W. Boch, R. Blatt, T. Calarco)**

- Coffee Breaks : Just outside the Conference room
- Lunch Break : At Ecole Normale Supérieure, 45 rue d'Ulm  
See map in the Booklet (or follow others...)  
You need a ticket, please don't be late !
- Conference Dinner : Restaurant "Chez Jenny", Metro "République"  
See map in your Booklet (or follow others...)  
You need your badge, dinner at 20:00
- Internet : There is one, but please listen to the talks...
- Getting lost... : Ask Emilie at the Conference Desk



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## QUROPE News

2008-02-09 → **Antonella Karlson**

It is with deep sadness and shock that we announce the death of Antonella Karlson, who passed away early this morning after fighting for several months against cancer.

We have lost not only a colleague but also a true friend, who was an inspiration for all of us in her pursuit of a common vision for QIPC. She will be missed in many ways.

Our hearts go out to her family and all who were close to her.

(Lukas Theussl, 2008-02-09 at 23:56:12)

**This meeting is  
dedicated to the  
memory of  
Antonella Karlson**



Born on February 19, 1960

Nationality : Dutch and Bulgarian.

Fluent in *English, French, Italian, Dutch, Greek*  
and *Bulgarian*.

**\* Master's Thesis (1985, Sofia University,  
Bulgaria) :  $SU(4)$  Unification of Electroweak  
Interactions in a Curved Space.**

Advisor: Prof. Dr. Matey Mateev

**\* PhD (1995, City College, New York, USA) :**  
*Stabilization of Positronium by Laser Fields,*

Advisor : Prof. Dr. M. H. Mittleman

**\* PostDoc at ULB, Belgium (1997) :**

Mathematical and numerical models for laser-  
atom and laser-molecule interactions, molecular  
dynamics and quantum optics

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**\* Industrial Collaborator at ULB (1998-2000)**

Department of *Electronics, Microelectronics and Telecommunications (1998-2000)*, specialization: Quantum Information Processing

\* In parallel works also at **Starlab NV** (Research management, studies on QIPC), and **DEXIA** (studies on Complex Systems)

**\* Member of the working group Pathfinder**

(1998), *Unit Future and Emerging Technologies*.

Task : to develop a global European policy for R&D in the field of Quantum Information Processing and Quantum Communication.

**\* Since 2001 : Scientific Officer for IST**

in the Units *Future and Emerging Technologies* and *Research Infrastructures (GRID)*



Information Society  
Technologies

# Information Society Technologies

ISTweb Quick Links

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## Future and Emerging Technologies

### Who is who

#### Antonella Karlson



#### Project Officer

Technical domains:

- Quantum Information Processing and Communication
- Laser-atom interactions, quantum optics
- Theoretical physics
- Mathematical physics and information theory
- Complex Systems

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## Programme of the QIP day, Wednesday, March 5

| <b>Time slot</b>    | <b>Contribution</b>   |
|---------------------|---|
| 9.00 – 9:10         | <i>Philippe Grangier</i><br>Welcome, introduction and practical details.<br>Antonella Karlson obituary                    |
| 9:10 – 9:35         | <i>Wolfgang Boch</i> (10' presentation + 15' discussion)<br>The FET Proactive Initiative QIPC+E2QT: strategy and planning |
| 9:35 – 9:45         | <i>Elisabeth Giacobino</i> (10' presentation)<br>The ISTAG Working Group on FET   |
| <b>9:45 – 10:10</b> | <b>Coffee Break</b>   |

**Start of the afternoon session shifted by 30 mn**

**BE THERE AT 14:00 (2 pm) !**

**14:00-15:35**      EC-level community initiatives  
*ERC Grants, QIPC Strategic Report,  
Consultation Workshop, Coordination action QUROPE*



**16:00-17:15**      Scientific highlights from the three Integrated Projects  
*EuroSQIP, QAP, SCALA*

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