

Paris, 13-18 April 2008

# Women in Photonics School on Photonic Metamaterials

(metamaterials, photonic crystals, nanomaterials,  
plasmonics)

**WiP 2008**

<http://esperia.iesl.forth.gr/~wip/>

## PROGRAMME

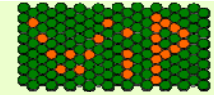
### Sunday, April 13 2008

17.00 – 19.00 Registration open

19.00 – 20.30 Welcome Party

19.30 – 20.00 Don't miss in Paris (virtual tour to Paris)

### Monday, April 14



8.45 – 9.00 Opening Ceremony

#### EC lecture

9.00 – 9.30 FP7: NMP programme and opportunities for young researchers .....*Anne De Baas (EC, Europe)*

#### Session I: Electromagnetism

9.30 – 11.00 L1. Basic electromagnetism for photonic metamaterials.....*Maria Kafesaki (FORTH, Greece)*

11.00 – 11.30 Coffee Break

#### Session II: Photonic crystals

11.30 – 13.00 L2. Photonic crystals: main concepts and equations.....  
.....*Stavroula Foteinopoulou (FORTH, Greece)*

13.00 – 14.30 Lunch

#### Session III: Gender activities in EU

14.30 – 14.50 Where they all have gone?...*Nancy Pascall (EC, Europe)*

#### Session IV: Plasmonics

14.50 – 16.20 L3. Plasmonics: main concepts and equations.....  
.....*Tatiana Teperik (CNRS, France)*

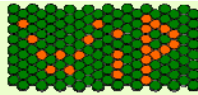
16.20 – 16.50 Coffee Break

#### Session V: Metamaterials

16.50 – 17.50 L4. Basics of single negative and double negative metamaterials.....  
.....*Ekaterina Shamoina (Univ. of Erlangen-Nuremberg, Germany)*

17.50 – 18.20 L5. Near field imaging with Metamaterials.....  
.....*Anna Radkovskaya (Lomonosov Moscow State Univ., Russia)*

Tuesday, April 15



**Session II: Photonic crystals**

9.00 – 10.30 **L6. Photonic crystals: review of the field – recent developments – perspectives**.....  
.....*Willem Vos (Univ. of Twente, The Netherlands)*

10.30 – 11.00 *Coffee Break*

11.00 – 12.00 **L7. Photonic crystal fabrication techniques**.....  
.....*Silvia Pietralunga (CORECOM, Italy)*

**Session V: Metamaterials**

12.00 – 13.00 **L8. Metamaterials: translation from physicists to engineers and viceversa**.....  
.....*Sergei Tretyakov (TKK, Finland)*

13.00 – 14.30 *Lunch*

14.30 – 16.00 **L9. Metamaterials: review of the field and recent developments**.....  
.....*Costas Soukoulis (FORTH, Greece, Iowa State Univ., USA)*

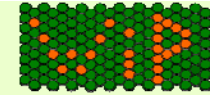
16.00 – 16.30 *Coffee Break*

16.30 – 17.30 **L10. Planar Metamaterials obtaining new functionalities beyond negative refraction**.....  
.....*Nikolay Zheludev (Univ. of Southampton, UK)*

17.30 – 18.00 **Metamorphose NoE roadmap**.....  
.....*Sergei Tretyakov (TKK, Finland)*

20.00 – 22.00 *School dinner*

Wednesday, April 16



**Session VI: Science communication**

9.00 – 10.30 **L11. Making the most of your presentation**.....  
.....*Jean Luc Doumont (Principia, Belgium)*

10.30 – 11.00 *Coffee Break*

**Session V: Metamaterials**

11.00 – 12.00 **L12. Transmission lines (TL) and TL-based Metamaterials – introduction and review of the field**.....  
.....*Irina Vendik (Saint Petersburg Electrotechnical Univ.)*

**Session VII: Metamaterials and photonic crystals**

12.00 – 13.00 **L13. Electromagnetic modeling of photonic materials**.....  
.....*Femke Olyslager (Ghent Univ., Belgium)*

13.00 – 14.30 *Lunch*

**Session III: Gender activities in EU**

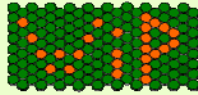
14.30 – 14.50 **Women in engineering? (Prometea project)**.....  
.....*Cloé Pinault (ENS Cachan)*

**Session IV: Plasmonics**

14.50 – 16.20 **L14. Plasmonics: review of the field, recent developments and main applications**.....  
.....*Alexandra Boltasseva (Techn. Univ. of Denmark)*

16.20 – 18.30 *Poster session (with short 1-2 slide presentations of participants, including coffee break)*

## Thursday, April 17



### Session VII: Metamaterials and photonic crystals

9.00 – 10.00 **L15. Dielectrics for metamaterials**.....  
.....*Elena Semouchkina (Pennsylvania State Univ., USA)*

### Session VIII: Photonics – other fields

10.00 – 11.00 **L16. Photonic materials in biological applications**.....  
.....*Csilla Gergely (Univ. Montpellier 2, France)*

11.00 – 11.30 *Coffee Break*

### Session VI: Science communication

11.30 – 13.00 **L17. Structuring your scientific paper**.....  
.....*Jean Luc Doumont (Principia, Belgium)*

13.00 – 14.30 *Lunch*

### Session V: Metamaterials

14.30 – 15.30 **L20. Non-linear effects in PCs and metamaterials**..  
.....*Concita Sibilina (Univ. di Roma, Italy)*

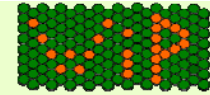
15.30 – 16.00 **Phoremest NoE roadmap**.....  
.....*Silvia Pietralunga (CORECOM, Italy)*

16.00-16:30 *Coffee Break*

### Session VII: Metamaterials and photonic crystals

16.30 – 17.30 **L19. Dynamically controllable metamaterials**.....  
.....*Irina Vendik*  
.....*(Saint Petersburg Electrotechnical Univ.)*

## Friday, April 18



### Session VII: Metamaterials and photonic crystals

9.00 – 10.00 **L20. Electrically controllable PCs and metamaterials and their industrial application**.....  
.....*Frédérique Gadot (Univ. Paris Sud, France)*

### Session VIII: Photonics – other fields

10.00 – 11.00 **L21. Carbon nanotubes for photonics**.....  
.....*Elena Obraztsova (Russian Academy of Sciences)*

11.00 – 11.30 *Coffee Break*

### Session VII: Metamaterials and photonic crystals

11.30 – 12.30 **L22. Self-organization approach to photonic crystals and metamaterials**.....  
.....*Dorota A. Pawlak (ITME, Poland)*

12.30 – 12.45 *Closing ceremony*

12.45 – 14.15 *Lunch*