

Wednesday June 19th, 2019

10h30 - 12h

Welcome of the participants

12h15 - 13h45

Lunch

13h45 - 14h

Opening of the 5th SCOPE days

14h - 14h45

Opening conference (Invited)

"High aspect ratio porous silicon nanostructures for drug delivery and biosensing"
Prof. C. Chiappini- King's College London, England

Communications

14h45 - 15h05

« Functionalization of porous silicon nanoparticles for controlled nucleic acid delivery »
A. Chaix, E. Cueto Diaz, C. Nguyen, D. Aggad, N. Bettache, M. Maynadier, M. Garcia, M. Gary-Bobo,
A. Delalande, R. Clemençon, P. Midoux, C. Pichon, J.-O. Durand, F. Cunin

15h05 - 15h25

"Porous silicon resorption and silicic acid release during bone tissue engineering"
N. Fatima, H. Salehi, F. Cuisinier, F. Cunin, P-Y. Collart-Dutilleul

15h25 - 15h45

« Porous Silicon Nanoparticles as a targeting vector for Rhabdomyosarcoma »
S. Dominguez Gil, E. Cueto Diaz, A. Chaix, C. Pichon,; P. Midoux, M. Gary-Bobo, M. Maynadier, A.
Morère, M. Garcia, J.O. Durand, F. Cunin

15h45 - 16h05

" Label-free SERS-based aptasensing platform using silicon nanowires for the detection of prostate specific antigen »
A. Ouhibi, M. Saadaoui , N. Lorrain, M. Guendouz, N. Raouafi, A. Moadhen

16h05 - 16h45

Coffee break/poster session

16h45 - 17h30

Invited conference

«*Fabrication of silicon nanostructures via MACE method and their applications*»
Dr. Yannick Coffinier - Institute of Electronics, Microelectronics and Nanotechnology - Université de
Lille, France

17h30 - 17h50

« Intégration du silicium poreux dans les dispositifs micro-électroniques : avancées récentes »
G. Gautier, J. Billoué, T. Defforge, S. Menard, S. Desplobain

17h50 - 18h10

« Multi-layered mesoporous silicon membrane for flow-through optical sensing applications »
R. Vercauteren, L. A. Francis

18h10 - 18h30

« Low-threshold blue lasing from polyfluorene-infiltrated monolithic porous silicon resonant micro-cavities »
V. Robbiano, G. M. Paternò , A. A. La Mattina, Silvia G. Motti , Guglielmo Lanzani , Francesco Scotognella, G. Barillaro

18h30

End of the day

20h

Dinner in Paris (restaurant Vaudeville)

Thursday June 20th, 2019

9h15 - 9h45

Opening conference (Invited)

“Functionalization of oxide-free silicon surfaces”

Dr. A. C. Gouget - Condensed Matter Physics laboratory, Ecole polytechnique, France

Communications

9h45 - 10h05

« Detection of dimethyl methylphosphonate (DMMP), a Sarin simulant, by FT-IR and SALDI-MS on decorated porous silicon layer.»

W. Raiah, M. Guendouz, P. Pirasteh, V. Thomy, J. Charrier, Y. Coffinier

10h05 - 10h25

« Integration of multiple Lateral Porous Silicon membranes into a Lab-on-Chip for molecule detection»

D. Silva de Vasconcellos, K. Hajdu, E. Imbernon, D. Bourrier, T. Leichle

10h25 - 10h50

Coffee break

11h50 - 11h10

« Porous water-splitting silicon photoanodes prepared by chemical and electrochemical processes»

K. Oh, L. Joanny, F. Gouttefangeas, B. Fabre, V. Dorcet, S. Ababou-Girard, G. Loget

11h10 - 11h30

« Porous silicon at the heart of an innovating strategy to fabricate stable and efficient photoanode for water photooxidation »

M. Dufond, G. Loget, S. Haschke, J. Bachmann, L. Santinacci

11h30 - 11h50

“Photoélectrooxydation de l'eau et de l'urée sur des électrodes de Fe₂O₃ nanoporeux/Ni”

L. Rebiai, D. Muller-Bouvet, H. Zakir Houssen, S. Azimi, V. Rocher, M. Latroche, C. Cachet-Vivier, S. Bastide

11h50 - 12h10

« Gravure par contact de motifs 3D dans Si avec des métaux nanoporeux »

S. Bastide, E. Torralba, M. Halbwax, S. Le Gall, E. Mpogui, C. Cachet-Vivier, V. Magnin, J. Harari, D. Yarekha, J.-P. Vilcot

12h10 - 12h30

Assemblée Générale of SCOPE.

12h30 - 12h45

Prize of the conference and closing of the 5th SCOPE days

12h45 - 14h00

Lunch