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EUROPEAN SCHOOL OF MEDICAL PHYSICS

Fifteenth Session

October 18 - November 27, 2012

ARCHAMPS, FRANCE

*The School is organised each Autumn in Archamps at 7 Km from Geneva, on the French-Swiss border.
It offers quality training in aspects of Medical Physics, from Medical Imaging to Radio- and Brachy- Therapy.*

Eligibility :

Physics graduates recently or soon to be qualified as medical physicists (Qualified Medical Physicist as defined by EFOMP) or those working in an environment of biomedical research

Director of the School : Yves LEMOIGNE (ESI, Archamps)
Deputy director: Jacques BALOSSO (UJF, Grenoble-F)

This is an EFOMP accredited course and eligible for CPD points under category 1 of EFOMP Policy document at : www.efomp.org.

Medical Imaging -1 Imaging Principles, Radiology, Ultrasound 18 - 23 Oct. 2012

Supervisors :

Prof. C. Cachard (Creatis, Lyon-F)
Dr. J. Geleijns, (Leiden-NL)

Medical Imaging -2 Nuclear Medicine Magnetic Resonance 25 - 30 Oct. 2012

Supervisors :

Prof. J. Alger (UCLA, Los Angeles-USA)
Prof. J. Balosso (UJF, Grenoble-F)

Medical Computing-3 1 - 6 Nov. 2012

Supervisors :

Prof. L. Bidaut (Dundee, Scotland, UK)
Dr. P. Arce (CIEMAT, Madrid, E)

A limited number of bursaries will be available mainly for Eastern Europe students but not for travel costs



4 - Physics of Modern Radiotherapy 8 - 13 Nov. 2012

Supervisors :

Prof. U. Oelfke (DKFZ, Heidelberg-D)
Prof. B. McClean (St Luke Hosp., Dublin-Irl)

5 - Brachytherapy 15 - 20 Nov. 2012

Supervisors :

Dr. A. Rijnders (Eur. Hosp. Brussels-B)
Dr. A. Carlsson-Tedgren (Linköping-S)

6 - Radioprotection 22 - 27 Nov. 2012

Supervisors :

Dr. S. Christofides (Nicosia-CY)
Dr. Pawel Kukulowicz (Kielce-PL)

**Registration fees:
550 Euros / Week
(+administrative fees)
Special rates for two or
more weeks registration.**

*The minimal registration is for a full week
Accommodation is not included in the above School Fees*

The medical imaging courses are proposed as a comprehensive two-week programme. Priority will be given to participants registering at least for both weeks.

A collaboration between :

EUROPEAN SCIENTIFIC INSTITUTE



with participation of



CERN - Geneva

and



Commissariat à l'Énergie Atomique

**EUROPEAN FEDERATION
of ORGANISATIONS
for MEDICAL PHYSICS**



**DEAD LINE FOR REGISTRATION : JUNE 1, 2012 - THE NUMBER OF PARTICIPANTS IS LIMITED.
(Dead line is May 1 for students needing a visa)**

ESMP secretariat: European Scientific Institute, 155 Byron, Technopôle, F-74166 St Julien en Genevois Cedex Tel : +33 450 31 50 03
On the WEB: <http://lemoigne.web.cern.ch/lemoigne/> or www.efomp.org - By email: esi.esmp@cern.ch Fax : +33 450 95 38 01

The EUROPEAN SCHOOL of MEDICAL PHYSICS



**EUROPEAN SCHOOL
of
MEDICAL PHYSICS**

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**EUROPEAN SCHOOL
OF
MEDICAL PHYSICS**

Archamps, 18 October – 27 November 2012

The European School of Medical Physics (ESMP) is a partnership between

European Federation of Organisations for Medical Physics (EFOMP)
and

European Scientific Institute (ESI),

with the support of :

- CERN (Geneva-Ch)
- Commissariat à l'Energie Atomique (Saclay-F)
- Conseil Général de la Haute-Savoie (Annecy-F),
- Communauté des Communes du Genevois (Archamps -F)
- PTW-Freiburg GmbH (Freiburg-D),
- Programme ACCES – MENR (Paris-F).

**COPY of TRANSPARENCIES
PROCEEDINGS**

- **Week1: Medical Imaging: Principles, Ultrasounds & Magnetic Resonance**
- **Week2 : Medical Imaging with Ionising Radiations**
- **Week3: Medical Computing**
- **Week4 : Physics of Modern Radiotherapy / Conformal Radiotherapy**
- **Week5 : Brachytherapy**
- **Week6 : Radiation Protection in Medical Physics**

Editor : Yves LEMOIGNE, Director

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2013 SCHOOL ANNOUNCEMENT

As ESMP 2011 and ESMP 2012 the 2013 session will include a sixth week devoted to RadioProtection in Medical Physics.

Week 1 : 17 October 2013 : Medical Imaging *

Week 2 : 24 October 2013 : Medical Imaging (Cont'd)*

Week 3 : 31 October 2013 : Medical Computing *

Week 4 : 7 November 2013 : Conformal Radiotherapy**

Week 5 : 14 November 2013 : Brachytherapy**

Week 6 : 21 November 2013 : Radioprotection & Dosimetry **

**The application will open mid-February
The **deadline** for application is **June 1st****

The number of participants is limited !

*Note ** : Priority will be given to students applying at least for the first three weeks (1,2,3)

*Note *** : Priority will be given to students applying at least for last three weeks (4,5,6)

If you (or someone around you) is interested to participate, please, visit urgently our website :

<http://lemoine.web.cern.ch/lemoine/>

or

www.efomp.org

(page : conference meeting courses)

The deadline for application is June 1st

EUROPEAN SCHOOL of MEDICAL PHYSICS

Fifteenth Session

ARCHAMPS, 18 October - 27 November 2012

You were Welcome :

EUROPEAN SCHOOL OF MEDICAL PHYSICS

Fifteenth Session

ARCHAMPS, 18 October - 27 November 2012

WELCOME !

The fifteenth session in 2012 will continue on the same ways as the previous sessions but with several changes and improvements.

There are changes in the Faculty. After 14 years of supervision and lecturing in Radiotherapy week, Steve Webb has decided to stop. He will be replaced by Uwe Oelfke as supervisor and by Dirck Verellen (Brussels) for lecture. Jacques Bonnet is suddenly passed away

last June. It was a shock for everybody in Archamps where his clear and precise lectures were unanimously appreciated. He will be replaced by Alex Rijnders as Supervisor. As Inger-lena Lam decided also to stop her supervision, Asa Carlsson-Tengren. (Linköping)

will become co-supervisor of week 5 with Alex. Thomas Brun (Toulouse) has accepted to replace Jacques as lecturer: Finally Jacques Balosso (CHU-Grenoble) accepted to replace Bob Ott as Supervisor of week 2 and to lecture in the place of Suzanne Albrecht.

We have to express our gratitude to all friends who are leaving the ESMP Faculty after an excellent work during so many years. We welcome warmly the new colleagues who immediately accepted to replace the leaving ones. No doubt that they will provide now excellent work.

By participating in this new session of ESMP in Archamps, I do hope you will gain the best advantage from an active participation in the week(s) you have chosen. In the tradition of EFOMP and ESI educational activities, the courses will be designed and taught by specialists in the relevant fields. About 65 lecturers and a dozen of assistants for practical exercises will be at your disposal during the School. Do not hesitate to use this opportunity. All ESMP courses are proposed in accordance with EFOMP guidelines for education and training in medical physics, as laid out in policy statements of EFOMP.

Each week has been organised under the responsibility of a supervisor and a co-supervisor, both experts in the particular field of the week. These experts will stay in Archamps during the major part of the week, assisting the students and ready to answer their questions.

The School is really European, both by the origin of the students, but also by the origin of the lecturers (Europeans and several non-Europeans). We think that exchange and comparison of different cultures constitute a very positive aspect for the School.

Each week has some optional extensions: in addition to the traditional lectures, tutorials and visits, optional practical exercises are proposed at the Geneva university / hospital or in Archamps. For better training, each student will have his/her PC where several Practical Exercises will be proposed by lecturers. The number of students who can participate in this practical exercises other

than ones done on computer being limited, you will have to register for these exercises after reading the documentation available at the secretariat.

An optional examinations is organised at the end of each week. This will lead to Credits Points in the frame of EFOMP regulations.

The School programme is relatively heavy. It is why the Sunday is reserved for other activities like group excursion: Chamonix, Geneva or Annecy which are very beautiful cities.

For any question related to courses you can contact the supervisor (or co-supervisor) of each week, or myself. For any question related to organisation, accommodation, receipt, certificate... : ask the ESI administrator, Marie Gauthier or our assistant, Coline Creton.

Again, welcome to Archamps,

Yves LEMOIGNE

ESMP Director

Documents available for each week contains :

1. Time table of the week
2. Pdf version of the 2012 lecture (sometimes divided in two parts for easier access)
3. Several photos taken during the week.

Note also that in complement to the last session powerPoint presentations given below you can buy four reference books of Proceedings covering the six weeks of ESMP (see table below). Book 2007 is for weeks 1 and 2, book 2008 for week 3, book 2009 for weeks 4 and 5, book 2010 for week 6.

	<p>Physics for Medical Imaging Applications Nato Science Series (II Mathematics, Physics and Chemistry) Yves Lemoigne, Alessandra Caner and Ghita Rahal (5 janvier 2007)</p> <p>SPRINGER P.O. Box 17,3300 AA Dordrecht, The Netherlands</p> <p><i>Amazon Price: 64 €(Kindle format), 121 €(Broché)</i></p>
	<p>Molecular Imaging: Computer Reconstruction & Practice Nato Science Series (II Mathematics, Physics and Chemistry) Yves Lemoigne et Alessandra Caner (18 août 2008)</p> <p>SPRINGER P.O. Box 17,3300 AA Dordrecht, The Netherlands</p> <p><i>Amazon Price: 68 €</i></p>
	<p>Radiotherapy and Brachytherapy (NATO Science for Peace and Security Series - B: Physics and Biophysics) Yves Lemoigne et Alessandra Caner (11 september 2009)</p> <p>SPRINGER P.O. Box 17,3300 AA Dordrecht, The Netherlands</p> <p><i>Amazon Price: 67€</i></p>
	<p>Radiation Protection In Medical Physics (Nato Science For Peace And Security Series B: Physics and Biophysics)... Yves Lemoigne et Alessandra Caner (1 décembre 2010)</p> <p>SPRINGER P.O. Box 17,3300 AA Dordrecht, The Netherlands</p> <p><i>Amazon Price: 63€</i></p>

Week 1 : Medical Imaging - 1 : Principles, Radiology & Ultrasounds.

1. [Click here to access the week1 timetable](#)
2. [Click here to access lecture-1 notes of K.F. Kamm](#)
3. [Click here to access lecture-2 notes of K.F. Kamm](#)
4. [Click here to access Tutorial notes of K.F. Kamm](#)
5. [Click here to access lecture notes of K. Geleijns 1](#)
6. [Click here to access lecture notes of K. Geleijns 2](#)
7. [Click here to access lecture notes of K. Geleijns 3](#)
8. [Click here to access lecture notes of K. Geleijns 4](#)
9. [Click here to access lecture notes of A. Davies](#)
10. [Click here to access lecture notes of P. Sharp \(part1\)](#)
11. [Click here to access lecture notes of P. Sharp \(part2\)](#)
12. [Click here to access lecture notes of N. Guerrini/R. Turchetta](#)
13. [Click here to access lecture notes of G. Beyer](#)
14. [Click here to access lecture notes of E. Castellano \(Digital Imaging\)](#)
15. [Click here to access lecture notes of E. Castellano \(Mammography\)](#)

16. [Click here to access lecture notes of E. Castellano \(Patient dosimetry\)](#)
17. [Click here to access lecture notes of E. Castellano \(Quality Control\)](#)
18. [Click here to access lecture notes of J.M. Mari \(Basic US\)](#)
19. [Click here to access lecture notes C. Cachard \(Contrast Agents\)](#)
20. [Click here to access lecture notes of H. Liebgott \(Transducers\)](#)
21. [Click here to access lecture notes of P. Tortoli \(Doppler\)](#)
22. [Click here to access lecture notes of P. Tortoli /N. de Jong \(30 Years...\)](#)
23. [Click here to access lecture notes of N. de Jong / C. Cachard \(IVUS\)](#)
24. [Click here to access lecture notes of H. Liebgott \(Post Processing\)](#)
25. [Click here to access lecture notes of H. Liebgott \(Compressing..\)](#)
26. [Click here to access exercises of H. Liebgott \(FIELD2\)](#)
27. [Click here to access lecture notes of D. Bandon](#)
28. [Click here to access lecture notes of J.M. Mari \(Elastography \)](#)
29. [Click here to access lecture notes of J.M. Mari \(QA\)](#)
30. [Click here to access lecture notes of J.M. Mari \(Therapeutic US\)](#)
31. [Click here to look at photos taken during week 1](#)

Week 2 : Medical Imaging - 2 : Magnetic Resonance, PET & SPECT

1. [Click here to access the week2 timetable](#)
2. [Click here to access lecture notes of Y. Lemoigne \(SPECT/PET\)](#)
3. [Click here to access lecture notes of V. Gregoire \(N.M. Imaging...\)](#)
4. [Click here to access lecture notes of v. Gregoire \(PET in RT..\)](#)
5. [Click here to access lecture notes of v. Gregoire \(ICRU#83\)](#)
6. [Click here to access lecture notes of C. Comtat \(DAQ & Processing\)](#)
7. [Click here to access lecture notes of C. Comtat \(Image formation\)](#)
8. [Click here to access lecture notes of A. Todd-Pokropec, \(Advance.in PET...\)](#)
9. [Click here to access lecture notes of A. Todd-Pokropec, \(Compt. aid Surgery..\)](#)
10. [Click here to access lecture notes of A. Todd-Pokropec, \(Drug dev. applications\)](#)
11. [Click here to access lecture notes of J. Balosso \(Clinical PET\)](#)
12. [Click here to access lecture notes of M. Leach \(RMN part 1\)](#)
13. [Click here to access lecture notes of M. Leach \(RMN part 2\)](#)
14. [Click here to access lecture notes of M. Leach \(RMN part 3\)](#)
15. [Click here to access lecture notes of F. Lazeyras](#)
16. [Click here to access lecture notes of J. Alger \(PC exercises\)](#)
17. [Click here to access lecture notes of J. Alger, \(MRI part1\)](#)
18. [Click here to access lecture notes of J. Alger, \(MRI part2\)](#)
19. [Click here to access lecture notes of J. Alger, \(Advanced MRI applications\)](#)
20. [Click here to access lecture notes of J. Alger, \(Functional MRI\)](#)
21. [Click here to access lecture notes of J. Alger, \(Clinical MRS\)](#)
22. [Click here to access lecture notes of E. Hiltbrand \(Hospital MRI and exercises\)](#)
23. [Click here to look at photos taken during week 2](#)

Week 3 : Medical Computing

1. [Click here to access the timetable of week 3](#)
2. [Click here to access lecture notes of S. Giani \(Methodology...\)](#)
3. [Click here to access lecture notes of S. Giani \(Medical app...\)](#)
4. [Click here to access lecture notes of M. Dosanjh \(RadioBiology\)](#)
5. [Click here to access lecture of J. Apostolakis \(intro GEANT4...\)](#)
6. [Click here to access lecture notes of Z. El-Bitar \(Intro Monte-Carlo\)](#)
7. [Click here to access lecture notes of Z. El-Bitar \(Exercises Monte-carlo\)](#)
8. [Click here to access lecture notes of Z. El-Bitar \(Intro GATE\)](#)
9. [Click here to access lecture notes of Z. El-Bitar \(Exercises GATE\)](#)
10. [Click here to access lecture notes of P. Arce \(GAMOS cours\)](#)
11. [Click here to access Exercises with GAMOS \(P. Arce\)](#)
12. [Click here to access lecture notes of P. Arce \(GAMOS for RT\)](#)
13. [Click here to access Exercises with GAMOS for RT \(P. Arce\)](#)
14. [Click here to access lecture notes of B. Gibaud \(PACS...\)](#)
15. [Click here to access lecture notes of B. Gibaud \(DICOM.....\)](#)
16. [Click here to access lecture notes and exercises of A.Djafari](#)
17. [Click here to access lecture notes of H. Hoffmann \(@ CERN\)](#)
18. [Click here to access lecture notes of S. Vandenberghe](#)
19. [Click here to access lecture notes of W. Muller-Schauenburg, Pharmacokinetics](#)
20. [Click here to access lecture notes of Y. Lemoigne \(Modelling...\)](#)
21. [Click here to access lecture notes of U. Fuchs, Computer Networks](#)
22. [Click here to access lecture notes of L. Bidaut \(MultiModality...\)](#)
23. [Click here to access lecture notes of T. Glatard \(VIP, Grid...\)](#)
24. [Click here to look at photos taken during week3](#)

Week 4 : Physics of Modern Radiotherapy

1. [Click here to access the timetable of week 4](#)
2. [Click here to access lecture notes of M. Buffa \(Fundamental Radiobiology-1\)](#)
3. [Click here to access lecture notes of M. Buffa \(Fundamental Radiobiology-2\)](#)
4. [Click here to access lecture notes of G. Hartmann, Dosimetry-1](#)
5. [Click here to access lecture notes of G. Hartmann, Dosimetry-2](#)
6. [Click here to access lecture notes of G. Hartmann \(Strategy...\)](#)
7. [Click here to access lecture notes of G. Hartmann, Tutorial Dosimetry](#)
8. [Click here to access lecture notes of G. Hartmann, Tutorial 2](#)
9. [Click here to access exercises of G. Hartmann](#)
10. [Click here to access lecture notes of D. Verellen-1](#)
11. [Click here to access lecture notes of D. Verellen-2](#)
12. [Click here to access lecture notes of D. Verellen-3](#)
13. [Click here to access lecture notes of S. Nill-IMRT](#)

14. [Click here to access lecture notes of S. Nill-2-stereo](#)
15. [Click here to access lecture notes of B. McClean-1 \(Q.A.\)](#)
16. [Click here to access lecture notes of B. McClean-2 \(Accidents...\)](#)
17. [Click here to access lecture notes of U. Oelfke \(Image guided...\)](#)
18. [Click here to access lecture notes of U. Oelfke, Protontherapy](#)
19. [Click here to access lecture notes of U. Amaldi, Hadrontherapy](#)
20. [Click here to access Presentation notes of C. Nauraye/R. Ferrand, pract. P-Therapy](#)
21. [Click here to access Presentation notes of PTW-Freiburg \(Comp. Pres.\)](#)
22. [Click here to access Presentation notes of PTW-Freiburg \(Radiation Med...\)](#)
23. [Click here to access Presentation notes of PTW-Freiburg \(Octavius\)](#)
24. [Click here to access lecture notes of P. Remeijer 1 \(uncertainties...\)](#)
25. [Click here to access lecture notes of P. Remeijer 2 \(imaging...\)](#)
26. [Click here to access lecture notes of P. Remeijer 3 \(electronic portal...\)](#)
27. [Click here to access lecture notes of J. Balosso](#)
28. [Click here to access lecture notes of A. Racz \(CMS DAQ\)](#)
29. [Click here to access lecture notes of D. Denegri \(CMS Phys\)](#)
30. [Click here to look at photos taken during week 4](#)

Week 5 : Brachytherapy

1. [Click here to access the timetable of week 5](#)
2. [Click here to access lecture notes of A. Rijnders \(Photon sources...\)](#)
3. [Click here to access lecture notes of A. Rijnders \(calibrations...\)](#)
4. [Click here to access lecture notes of A. Rijnders, \(Conv. Comput. Planning...\)](#)
5. [Click here to access lecture notes of A. Rijnders, \(QA, Rad.Protect...\)](#)
6. [Click here to access lecture notes of F. Lafay/C. Mallet, \(Paris Syst...\)](#)
7. [Click here to access exercises of F. Lafay/C. Mallet, \(Paris Syst exercises...\)](#)
8. [Click here to access lecture notes of C. Mallet, \(Solid State...\)](#)
9. [Click here to access lecture notes of T.Brun \(LDR/MDR/HDR/PDR\)](#)
10. [Click here to access lecture notes of T. Brun, \(Intraluminal...\)](#)
11. [Click here to access lecture notes of J.J. Mazeron](#)
12. [Click here to access lecture notes of Y. Popowski](#)
13. [Click here to access lecture notes of IL. Lamm-1, \(Basic Treatment Planning...\)](#)
14. [Click here to access lecture notes of IL. Lamm-2, \(Cervix C...\)](#)
15. [Click here to access lecture notes of IL. Lamm-3, \(Reporting, ICRU...\)](#)
16. [Click here to access lecture notes of A. Carlson-Tedgren \(MC dose calculation...\)](#)
17. [Click here to access lecture notes of A. Carlson-Tedgren \(Advanced dose calculation...\)](#)
18. [Click here to access lecture notes of T. Kaulich-1, Image Guided...](#)
19. [Click here to access lecture notes of T. Kaulich-2, Prostate..](#)
20. [Click here to access lecture notes of T. Kaulich-3, Intraocular...](#)
21. [Click here to access lecture notes of T. Kaulich-4 \(exercises...\)](#)
22. [Click here to access lecture notes of W. Dries-1, \(Dose Vol. Hist...\)](#)
23. [Click here to access lecture notes of W. Dries-2, Beta Sources...](#)
24. [Click here to access lecture notes of IL.Lamm-4 \(QA in BT.\)](#)
25. [Click here to look at photos taken during week 5](#)

Week 6 : Protection in Medical Physics

1. [Click here to access the timetable of week 6](#)
2. [Click here to access lecture notes of M. Rehani \(Radioprotection standards...\)](#)
3. [Click here to access lecture notes of M. Rehani \(Units, Dose...\)](#)
4. [Click here to access lecture notes of A. Wojcik \(Biological effects...\)](#)
5. [Click here to access lecture notes of A. Wojcik \(Health risk of low doses...\)](#)
6. [Click here to access lecture notes of P. Kukolowicz \(Radiobiology for RT...\)](#)
7. [Click here to access lecture notes of J. Malone-1 \(Principles of risk assessment...\)](#)
8. [Click here to access lecture notes of J. Malone-2 \(RP of Workers & Public\)](#)
9. [Click here to access lecture notes of J. Malone-3 \(Shielding in DR...\)](#)
10. [Click here to access lecture notes of J. Malone-4 \(Ethical issues...\)](#)
11. [Click here to access lecture notes of J. Malone-5 \(RP & Pregancy...\)](#)
12. [Click here to access lecture notes of P. Kukolowicz-2 \(Patient dose in RT...\)](#)
13. [Click here to access lecture notes of C. Lewis-1 \(Patient dose...\)](#)
14. [Click here to access lecture notes of C. Lewis-2 \(RP in DR & CT...\)](#)
15. [Click here to access lecture notes of S. Christofides-1 \(Patient dose in NM...\)](#)
16. [Click here to access lecture notes of P. Kukolowicz-3 \(Optimisation in RT\)](#)
17. [Click here to access lecture notes of F. Malacrida \(Rad Control @ CERN\)](#)
18. [Click here to access lecture notes of D. Forkel-Wirth \(Head of RadioProtection @ CERN\)](#)
19. [Click here to access lecture notes of P. Horton \(Shielding in RT\)](#)
20. [Click here to access exercises of P. Horton \(Excel for Shielding\)](#)
21. [Click here to access lecture notes of R. Padovani-1 \(Shielding in NM...\)](#)
22. [Click here to access lecture notes of R. Padovani-2 \(Optimisation in interventional...\)](#)
23. [Click here to access exercises of R. Padovani](#)
24. [Click here to access Excel exercises of R. Padovani \(Shielding\)](#)
25. [Click here to access lecture notes of S. Christofides-2 \(RP opt. in diag. NM...\)](#)
26. [Click here to access lecture notes of S. Christofides \(RP in X-ray systems ...\)](#)
27. [Click here to access lecture notes of N. Samet \(RP Opt. in Brachytherapy\)](#)
28. [Click here to access lecture notes of N. Samet \(Interventional procedures...\)](#)
29. [Click here to access lecture notes of S. Christofides \(Advances in Molecular Imaging...\)](#)
30. [Click here to access exercises of S. Christofides \(Use MIRD21\)](#)
31. [Click here to access complement to exercises of S. Christofides](#)
32. [Click here to look at photos taken during week 6](#)

This CD-rom contains also some software used during the week 6 exercises (to CD exos)

We hope that you enjoyed your stay in Archamps
and that the present CD-rom will be useful for your career.



The "Salève Building"



The Salève mountain with sun and snow on its top



Dr. Yves Lemoigne
School Director



Marie Gauthier
Head of Administration



Coline Creton
Assistant Administrator



Daniela Neamtu
Practical exercises Assistant



Davide Vitè, Head of
Computing