Name: BERHANU
First Name: Michaël
Birth date: 3 November 1980
Nationality: French
E-mail: michael.berhanu@univ-paris-diderot.fr
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Position:

From October 2010: Permanent researcher (CR1) **CNRS** in the laboratory " Matière et Systèmes Complexes" **MSC** ("*Matter and Complex systems"*) of the **Université de Paris** (formerly Université Paris Diderot)**.**

Current research interests:

● Hydrodynamics of erosion by dissolution and application to geomorphology

● Surface Waves and Wave Turbulence. Gravity-capillary wave turbulence.
Surface waves generation by an underwater moving bottom

●Turbulence and free surface flows. Interaction between surface waves and flows.

● Granular gas of magnetized particles

● Capillarity and aggregation of floating particles.

Previous research appointments and education:

2008-2010: Post-doctoral research at **Clark University** (Massachusetts/USA) in the group of **Arshad Kudrolli**. Experimental research about granular physics, capillarity, geomorphology.
2005-2008: PhD Student at the laboratory of statistical physics (LPS) in the « Ecole Normale Supérieure » (**ENS**). PhD thesis under the guidance of **Stéphan Fauve** and **Nicolas Mordant** and defended September 15th 2008: « Turbulent magnetohydrodynamics in liquid metals flows ».

2004-2005 : Master 2 of Physics at the ENS Lyon, option statistical physics and out of equilibrium phenomena.

2003-2004: Agregation de Sciences Physiques (2004) (National Competitive Exam for teaching in High school)
2001-2005 : Student at the Ecole Normale Supérieure de Lyon (ENS-Lyon) Master of physics (2001-2005), ENS-Lyon

1998-2001 : Undergraduate studies, Lycée Chaptal, Paris

Summary:

- 39 articles in international peer-reviewed journals
- 21 invited communications
- 5 invited talks in international conferences
- 11 Proceedings

Membership : *European Mechanics Society(*Euromec*h), Société Française de Physique* (SFP) and *American Physical Society (APS)*.

Referee for Physical Review Letters, Physical Review E, Journal of Fluid Mechanics, Physics of fluids, EPL, Langmuir, International Journal of Heat and Fluid Flow, Journal of Geophysical Research Earth Surface …

Service:

● Co-organization of workshop: « Mini-Colloque des rencontres du Non-Linéaire 2017: Interactions non linéaires entre ondes » Paris March 2017

● Co-organization of workshop: « Non-linear Hydrodynamic Waves: Wave interactions and Wave turbulence » Paris September 2013

● Co-organization of general seminars of the laboratory MSC since September 2011.
(about 150 seminars organized)

Funding:

● ANR Défis de tous les savoirs (JCJC) *Erodiss* (2017-2020) 250 000 €, PI

● BQR Université Paris Diderot *Gaz granulaire magnétique* (2012) 13 500 €, PI

● ANR Blanche *Turbulon* (2012-2016) PI : Éric Falcon

Teaching experience:

● 2011-2020 : Oral examinations and written corrections at undergraduate Level for students applying for joining the Ecoles Normales Supérieures.

● 2014- 2017 : Experimental physics projects, Physics Department, University Paris Diderot (96h by year)

● June-July 2011 : Oral examinations at undergraduate Level for aspiring engineer students.

● 2005-2008 : Teaching assistant at the Ecole Normale Supérieure de Paris (ENS) in physics:
Experimental physics and Hydrodynamics

Outreach:

● September 2020: Online presentation to the French "Pint of Science Festival online".
“Waves in weightlessness".

● Team leader with Adrian Daerr of the team of the Université de Paris at the "French Physicists’ Tournament", 2020 edition

● May 2016, 2017, 2018 et 2019. Organisation of a formation « Complex materials and carbon nanomaterials » for high school teachers. Lecture about surface waves.

● Since 2010. Regular participation to the « Fête de la Science ».

● 2013-2014 Setup of interactive experiments about foam physics.

Advising:

• Adrien Guérin (September 2017/September 2020). Postdoctoral researcher (co-supervised with Sylvain Courrech du Pont) ANR ERODISS (24 months) Hydrodynamics of erosion by dissolution.

• Clément Lutringer (March 2020/July 2020) Internship Master 2, (co- supervised with Julien Derr). Subject : Etude numérique du rôle de la topographie dans convection induite par la dissolution.

• Cyril Ozouf (March 2017/July 2017) Internship Master 2,
(co- supervised with Sylvain Courrech du Pont) Subject. Solutal convection experiments.

• Julien Philippi (June 2016/December2016). Postdoctoral researcher (co-supervised with Julien Derr and Sylvain Courrech du Pont). CNRS (6 months). Hydrodynamics of erosion by dissolution.

• Annette Cazaubiel (January 2016/June 2016) Internship Master 2, (co-supervised with Eric Falcon) Submerged fountain and surface waves.

• Caroline Cohen (November 2014/Mai 2016) Postdoctoral researcher (co-supervised with Sylvain Courrech du Pont) ANR Exodunes (18 months). Hydrodynamics of erosion by dissolution.

• Florence Haudin (February 2015/January 2016). Postdoctoral researcher (co-supervised with Eric Falcon) ANR Turbulon (12 months). Resonant interactions between waves. Bathymetry effect on soliton propagation.

• Simon Merminod (October 2013/October 2016) PhD Student (co-supervised with Eric Falcon) Université Paris Diderot., (Internship M2 entre january et july 2013).
Subject : 2D Magnetic Granular Gas

• Leonardo Gordillo (November 2012/November 2014) Postdoctoral researcher (co-supervised with Eric Falcon). Bourse Axa Research Fund Fellowship (2 years), project “Generation of tsunami waves”.

• Timothée Jamin (October 2012/January 2016) PhD Student (co-supervised with avec Eric Falcon). Funding: DGA CNRS: Subject : Surface waves and flows interactions : tsunamis, breaking, turbulence.

Publications:

1. ● A. Guérin, J. Derr, S. Courrech du Pont and **M. Berhanu**
« Streamwise dissolution patterns created by a flowing water film »
Physical Review Letters 125 (19), 194502 (2020) *"Editors' Suggestion" "Featured in Physics"*

2. ● E. Opsomer, J. Schockmel, N. Vandewalle, S. Merminod, M. Berhanu and E. Falcon
« Patterns in magnetic granular media at the crossover from two to three dimensions»
Physical Review E 102 (4), 042907 (2020)

3. ● E. Falcon, G. Michel, G. Prabhudesai, A. Cazaubiel, **M. Berhanu**, N. Mordant, S. Aumaître and F. Bonnefoy
Physical Review Letters 125 (13), 134501 (2020)

4. ● C. Cohen, **M. Berhanu**, J. Derr and S. Courrech du Pont
« Buoyancy-driven dissolution of inclined blocks: Erosion rate and pattern formation »
Physical Review Fluids 5 (5), 053802 (2020)

5. ● G. Castillo, S. Merminod, E. Falcon and **M. Berhanu**,
« Tuning the distance to equipartition by controlling the collision rate in a driven granular gas experiment »
Physical Review E 101 (3), 032903 (2020)

6. ● **M. Berhanu**, E. Falcon, G. Michel, C. Gissinger and S. Fauve
« Capillary wave turbulence experiments in microgravity »
Europhysics Letters EPL 128, 34001 (2019)

7. ● J. Philippi, **M. Berhanu**, J. Derr and S. Courrech du Pont
« Solutal convection induced by dissolution»
Physical Review Fluids 4 (10), 103801 (2019)

8. ● A. Cazaubiel, F. Haudin, E. Falcon and **M. Berhanu**
« Forced three-wave interactions of capillary-gravity surface waves »
Physical Review Fluids 4 (7), 074803 (2019) *("Editors' Suggestion")*

9. ● **M. Berhanu**, A. Guérin, S. Courrech du Pont, F. Raoult, R. Perrier and C. Michaut
« Uplift of an elastic membrane by a viscous flow »
Physical Review E 99, 043102 (2019) *("Editors' Suggestion")*

10. ● A. Cazaubiel, G. Michel, S. Lepot, B. Semin, S. Aumaître, **M. Berhanu**, F. Bonnefoy and E.Falcon
« Coexistence of solitons and extreme events in deep water surface waves »
Physical Review Fluids 3 (11), 114802, (2018)

11. ● **M. Berhanu**, E. Falcon and L. Deike
« Turbulence of capillary waves forced by steep gravity waves »
Journal of Fluid Mechanics 850, 803-843 (2018)

12. ● G. Michel, B. Semin, A. Cazaubiel, F. Haudin, T. Humbert, S. Lepot, F. Bonnefoy, **M.Berhanu** and E. Falcon
« Experimental gravity wave turbulence spectra resulting from the modulation of bound waves »
Physical Review Fluids 3 (5), 054801, (2018)

13. ● F. Bonnefoy, F. Haudin, G. Michel, B. Semin, T. Humbert, S. Aumaître, **M. Berhanu** and E.Falcon
« Experimental observation of four-wave resonant interactions in a wave basin »
La Houille Blanche - Revue internationale de l'eau 5, (2017)

14. ● L. Deike, **M. Berhanu** and E. Falcon.
« Observation of hydroelastic three-wave interactions»
Physical Review Fluids, 2, 064803 (2017)

15. ● C. Cohen, **M. Berhanu**, J. Derr and S. Courrech du Pont
« Erosion patterns on dissolving and melting bodies »
(2015 Gallery of Fluid motion) **Physical Review Fluids, 1, 050508 (2016)**

16. ● F. Bonnefoy, F. Haudin, G. Michel, B. Semin, T. Humbert, S. Aumaître, **M. Berhanu** and E. Falcon
« Observation of resonant interactions among surface gravity waves »
Journal of Fluid Mechanics (Rapids) 805, R3 (2016)

17. ● F. Haudin, A. Cazaubiel, L. Deike, T. Jamin, E. Falcon and **M. Berhanu**,
«Experimental study of three-wave interactions among capillary-gravity surface waves»
Physical Review E 93, 043110 (2016)

18. ● S. Merminod, T. Jamin, E. Falcon and **M. Berhanu**
«Transition to a labyrinthine phase in a driven granular medium»
Physical Review E 92, (2015)

19. ● L. Deike, B. Miquel, P. Gutiérrez, T. Jamin, B. Semin, **M. Berhanu**, E. Falcon, F. Bonnefoy
«Role of the basin boundary conditions in gravity wave turbulence »
Journal of Fluid Mechanics 781 (2015)

20. ● T.Jamin, L. Gordillo, G. Ruiz-Chavarría, **M. Berhanu** and E. Falcon
«Experiments on generation of surface waves by an underwater moving bottom»
Proceedings of the Royal Society A 471, (2015)

21. ● L. Deike, D. Fuster, **M. Berhanu** and E. Falcon.
«Direct numerical simulation of capillary wave turbulence»
Physical Review Letters 112 (2014)

22. ● S. Merminod, **M. Berhanu** and E. Falcon
«Transition from a dissipative to a quasi-elastic system of particles with tunable repulsive interactions»
Europhysics Letters 106, (2014) *(Editor's choice).*

23. ● L. Deike, **M. Berhanu** and E. Falcon
«Energy flux measurement from the dissipated energy in capillary wave turbulence»,
Physical Review E 89 (2014)

24. ● **M. Berhanu** and E. Falcon
«Space-time resolved capillary wave turbulence »
Physical Review E 87 (2013)

25. ● M. Dasgupta, B. Liu, H.C. Fu, **M. Berhanu**, K.S. Breuer, T.R. Powers and A. Kudrolli
« Speed of a Swimming Sheet in Newtonian and Viscoelastic Fluids»
Physical Review E 87 (2013)

26. ● **M. Berhanu**, A. Petroff, O. Devauchelle, A. Kudrolli and D.H. Rothman
« Shape and dynamics of seepage erosion in a horizontal granular bed»
Physical Review E 86 (2012)

27. ● L. Deike, **M. Berhanu** and E. Falcon
«Decay of capillary wave turbulence »
Physical Review E 85 (2012)

28. ● M.-J. Dalbe, D. Cosic, **M. Berhanu**, A. Kudrolli
«Aggregation of frictional particles due to capillary attraction»
Physical Review E 83, (2011)

29. ● **M. Berhanu**, G. Verhille, J. Boisson, B. Gallet, C. Gissinger, S. Fauve, N. Mordant, F. Pétrélis, M. Bourgoin, Ph. Odier, J.-F. Pinton, N. Plihon, S. Aumaître, A. Chiffaudel, F. Daviaud, B. Dubrulle, C. Pirat,
«Dynamo regimes and transitions in the VKS2 experiment»
European Physical Journal B 77 (2010)

30. ● **M. Berhanu**, A. Kudrolli
« Heterogeneous structure of granular aggregates with capillary interactions »
Physical Review Letters 105 (2010)

31. ● **M. Berhanu**, B. Gallet, R. Monchaux, M. Bourgoin, Ph. Odier, J.-F. Pinton, N. Plihon, R. Volk, S. Fauve, N. Mordant, F. Pétrélis, S. Aumaître, A. Chiffaudel, F. Daviaud, B. Dubrulle, F. Ravelet,
«Bistability between a stationary and an oscillatory dynamo in a turbulent flow of liquid sodium»
Journal of Fluids mechanics 641 (2009)

32. ● B. Gallet, **M. Berhanu**, N. Mordant
« Influence of an external magnetic field on forced turbulence in a swirling flow of liquid metal »
Physics of Fluids 21 (2009)

33. ● R. Monchaux, **M. Berhanu**, S. Aumaître, A. Chiffaudel, F. Daviaud, B. Dubrulle, S. Fauve, F. Ravelet, N. Mordant, F. Pétrélis, M. Bourgoin, Ph. Odier, J.-F. Pinton, N. Plihon, R. Volk
« The VKS experiment : a turbulent dynamo »
Physics of Fluids 21 (2009)

34. ● **M. Berhanu**, B. Gallet, N. Mordant, S. Fauve
« Reduction of velocity fluctuations in a turbulent flow of gallium by an external magnetic field »
Physical Review E 78,1, (2008)

35. ● S. Aumaître, **M. Berhanu**, M. Bourgoin, A. Chiffaudel, F. Daviaud, B. Dubrulle, S. Fauve, L. Marié, R. Monchaux, N. Mordant, P. Odier, F. Pétrélis, J.-F. Pinton, N. Plihon, F. Ravelet, R. Volk
« The VKS experiment: turbulent dynamical dynamos »
Comptes Rendus Physique 9,7 (2008)

36. ● F. Ravelet, **M. Berhanu**, R. Monchaux, S. Aumaître, A. Chiffaudel, F. Daviaud, B. Dubrulle, M. Bourgoin, P. Odier, J.-F. Pinton, R. Volk, S. Fauve, N. Mordant and F. Pétrélis
« Chaotic dynamos generated by a turbulent flow of liquid sodium»
Physical Review Letters 101, (7) (2008)

37. ● R. Monchaux, **M. Berhanu**, M. Bourgoin, Ph. Odier, M. Moulin, J.-F. Pinton, R. Volk, S. Fauve, N. Mordant, F. Pétrélis, A. Chiffaudel, F. Daviaud, B. Dubrulle, C. Gasquet, L. Marié, and F. Ravelet
« Generation of magnetic field by a turbulent flow of liquid sodium»,
Physical Review Letters 98, (2007)

38. ● **M. Berhanu**, R. Monchaux, S. Fauve, N. Mordant, F. Pétrélis, A. Chiffaudel, F. Daviaud, B. Dubrulle, C. Gasquet, L. Marié, and F. Ravelet, M. Bourgoin, Ph. Odier, M. Moulin, J.-F. Pinton, R. Volk
« Magnetic field reversals in an experimental turbulent dynamo »
Europhysics Letters 77, (2007)

39. ● R. Volk, F. Ravelet, R. Monchaux, **M. Berhanu**, A. Chiffaudel, F. Daviaud, P. Odier, J.-F. Pinton, S. Fauve, N. Mordant and F. Pétrélis
« Transport of magnetic field by a turbulent flow of liquid sodium »
Physical Review Letters 97, (2006)

Proceedings:

1. ● **M. Berhanu**, E. Falcon and S. Fauve,
"Wave turbulence in microgravity.",
Report to COSPAR (World Committee for Space Research), 42th Scientific Assembly, 14-22 July 2018, Pasadena, USA, CNES Ed., p. 66 - 67 (2018).

2. ● **M. Berhanu**, Simon Merminod, Eric Falcon and Gustavo Castillo,
"Random waves in a vibrated 2D granular."
Compte Rendu des Rencontres du Non-Linéaire 2018.

3. ● J. Mignot, R. Pierre, **M. Berhanu**, B. Busset, R. Roumiguié, H. Bavestrello, S. Bonfanti, T. Miquel, L. O. Marot, and A. Llodra-Perez.
"Fluid dynamic in space experiment."
In 68th International Astronautical Congress (IAC), Adelaide, Australia (IAC-17-A2. 62). 2017. 25-29 September 2017.

4. ● A. Cazaubiel, E. Falcon et **M. Berhanu**,
"Ondes de surface engendrées par un jet turbulent immergé "
Compte Rendu des Rencontres du Non-Linéaire 2017.

5. ● **M. Berhanu**, A. Cazaubiel, L. Deike, T. Jamin et E. Falcon
" Etude expérimentale des interactions à trois ondes des vagues capillaires "
Compte Rendu des Rencontres du Non-Linéaire 2015.

6. ● S. Merminod, **M. Berhanu** et E. Falcon
"Transitions structurales dans un gaz granulaire magnétique"
Compte Rendu des Rencontres du Non-Linéaire 2014.

7. ● **M. Berhanu** et Eric Falcon
"Propriétés spatio-temporelles de la Turbulence d'ondes capillaires"
Compte Rendu des Rencontres du Non-Linéaire 2012.

8. ● G Ruiz-Chavarria, **M. Berhanu** et Eric Falcon
"Génération d'ondes à la surface d'un fluide par un fond mobile"
Compte Rendu des Rencontres du Non-Linéaire 2012.

9. **M. Berhanu**, B. Gallet, N. Mordant et S. Fauve
"Réduction des fluctuations de vitesse d'un écoulement turbulent de Gallium sous champ magnétique."
Compte Rendu des Rencontres du Non-Linéaire 2008.

10. ● **M. Berhanu**, N. Mordant et S. Fauve
"Écoulement turbulent dans un cylindre : haut nombre de Reynolds et fluctuations à basse fréquence."
Compte Rendu des Rencontres du Non-Linéaire 2007.

11. ● **M. Berhanu**, A. Chiffaudel, F. Daviaud, S. Fauve, R. Monchaux, N. Mordant, Ph. Odier, F. Ravelet, F. Pétrélis, J.-F. Pinton and R. Volk
"Observation de transport de champ magnétique dans un écoulement turbulent de sodium liquide."
Compte Rendu des Rencontres du Non-Linéaire 2006.

Invited communications:

1. ● *Non-linear interactions and turbulence of capillary surface waves*
   Séminaire laboratoire PMMH, ESPCI. April 2019

2. ● *Hydrodynamics in erosion by dissolution: the case of solutal convection.*
   Departamento de Física, Facultad de Ciencia, Universidad de Santiago de Chile, November 2018

3. ● *Hydrodynamics in erosion by dissolution: the example of solutal convection induced by dissolution*
   Séminaire Matière Molle de l'institut de Physique de Rennes. March 2018

4. ● Wave Turbulence of Gravity-capillary surface waves.
   Congreso de la division de dinamica de Fluidos, Puebla, Mexique, November 2015

5. ● *Wave Turbulence of Gravity-capillary surface wavess.*
   Cargèse summer school " Wave propagation in complex media", August 2015

6. ● *Magnetic Granular Gas*
   Seminario Extraordinario DFI, Universidad del Chile, Santiago Chili, November 2014

7. ● *Experimental investigation of three-wave interactions of capillary surface-waves.*
   Dynamics days South America, Valparaiso Chili November 2014

8. ● *Gaz granulaire magnétique.*
   Séminaire du Laboratoire de Physique Statistique ENS (Paris) April 2014

9. *Wave Turbulence of Gravity-capillary surface waves*
   New Challenges in Turbulence Research III, Les Houches, France, Mars 2014

10. ● *Agrégats granulaires formés par attraction capillaire .*
    Séminaire Képler, laboratoire NAVIER, ENPC (France) January 2014

11. ● *Magnetic Granular Gas.*
    Physics Colloquium, Clark University (USA) November 2013

12. ● *Turbulence d'ondes capillaires.*
    Séminaire fluides de l'institut Jean Le Rond d'Alembert (Paris) April 2013

13. ● *Aggregates shaped by capillarity.*
    Séminaire du SPEC CEA Saclay (France) September 2012

14. ● *Spatial statistics of capillary wave turbulence.*
    Physics Colloquium, Clark University (USA) November 2011

15. ● *Granular aggregates with capillary interactions*
    Séminaire du GRASP Université de Liège (Belgium) March 2011

16. ● *Granular aggregates with capillary interactions.*
    Soft matter Seminar, Georgetown University (USA) August 2010

17. ● *Granular aggregates with capillary interactions.*
    Seminar of the center for Fluid mechanics, **Brown University** (USA) May 2010

18. ● *MHD measurements with liquid Gallium, to understand turbulent dynamos.*
Séminaire LGIT Université Joseph Fourier *(*Grenoble) March 2010

19. ● *Structure of a capillary granular aggregate. Role of rain in seepage erosion of granular material*
Séminaire du laboratoire Matière et systèmes complexes (MSC) *:*
Université Paris Denis Diderot December 2009

20. ● *New results on the VKS experimental turbulent dynamo*
European geophysical union meeting, Vienne (Austria) April 2008

21. ● *VKS : a turbulent homogeneous dynamo with liquid sodium*
Physics Colloquium, Clark University (USA) March 2008

Presentations in international conferences (since 2010):

- *Morphology of scallop patterns in erosion by dissolution.* ***EGU (European Geophysical Union) General Assembly 2020, Vienne, Austria*** *May 2020. Online session.*

- *Turbulence of capillary waves forced by steep gravity waves.* ***17th European Turbulence Conference, Turin***, ***Italy*** *September 2019*

- *Erosion patterns created by a water film flowing over an inclined soluble rock.*
EGU (European Geophysical Union) General Assembly 2019, Vienne, Austria *April 2019*

- *Random wave dynamics in a vibrated 2D granular medium with magnetic dipolar interactions.*
Southern Workshop on Granular Materials 2018, Puerto Varas, Chile, *December 2018.*

- *Erosion patterns created by a water film flowing over an inclined soluble rock.*
DFD (Division of Fluids dynamics) Meeting, APS (American Physics Society), Atlanta (USA) *November 2018*

- *Solutal convection induced by dissolution. Influence on erosion dynamics and interface shaping*
DFD (Division of Fluids dynamics) Meeting, *APS (American Physics Society),* ***Denver (USA)*** *November 2017*

- *Solutal convection induced by dissolution. Influence on erosion dynamics and interface shaping.*
EGU (European Geophysical Union) General Assembly 2017, ***Vienna Austria*** *Avril 2017*

- *Dispersion relations of random waves in a vibrated 2D granular medium with magnetic dipolar interactions.*
Réunion du LIA MSD (France Chili), *Matière Structure et dynamique, Lyon, July 2017.*

- *Deformation of an air-water interface by hydrodynamic turbulence*
Meeting of GDR Turbulence *at l'IMFT, Toulouse, June 2017.*

- *Liquid-solid-like phase transition in a 2D granular gas with magnetic dipolar interactions.*
International conference on Statistical Physics, Statphys 26, *Lyon , July 2016.*

- *Role of the basin boundary conditions in gravity wave turbulence*
DFD (Division of Fluids dynamics) Meeting, APS (American Physics Society),
Boston (USA) November 2015

- *Experimental investigation of three-wave interactions of capillary surface-waves*
  DFD (Division of Fluids dynamics) Meeting, APS (American Physics Society),
  San Francisco (USA) November 2014

- *Interactions between capillary wave turbulence and hydrodynamics turbulence*
  DFD (Division of Fluids dynamics) Meeting, APS (American Physics Society),
  Pittsburgh (USA) November 2013

- *Spatio temporal investigation of capillary wave turbulence: hypothesis of weak non linearity under scrutiny.*
  European Turbulence Conference 14, Lyon, September 2013

- *Spatio-temporal characterization of Capillary Wave Turbulence*.
  DFD (Division of Fluids dynamics) Meeting, APS (American Physics Society),
  San Diego (USA) November 2012

- *Spatial statistics of capillary wave turbulence*. **Wave turbulence Workshop**
  Ecole de physique des Houches, France, Mars 2012

- *Spatial statistics of capillary wave turbulence.*
  DFD (Division of Fluids dynamics) Meeting, APS (American Physics Society),
  Baltimore (USA) November 2011

- *Damping of a turbulent gallium flow by an external magnetic field*.
  Dynamo international GDR, Cargèse, Corse, France, September 2011