

## **GUENET, Jean-Michel, Directeur de Recherche CNRS 1<sup>st</sup> class**

born February 25, 1951 (Blanc-Mesnil, France)

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### **EDUCATION**

**1969-** *Baccalauréat série C* (Paris)

**1971-** *DUES* (Paris 13)

**1973-** *Maitrise Sciences et Techniques des Matériaux* (Paris 13)

**1974-** *Diplôme d'Ingénieur en matériaux* (Paris 13), *AEA Chimie macromoléculaire* (Paris 6)

**1975-** *DEA Physique moléculaire* (Strasbourg 1)

**1980-** PhD thesis (Université Louis Pasteur, Strasbourg)

*"Investigation by small-angle neutron scattering of a stereoregular polymer in the amorphous and semi-crystalline state : case of isotactic polystyrene"*

### **AWARDS**

- **Dillon medal 1990 of the American Physical Society.** The citation is:

*"For distinguished research on polymer chain conformation in semicrystalline polymers and for major contributions to the understanding of the nature of the gel state."*

(For details see <http://www.aps.org/programs/honors/awards/dillon.cfm>)

### **BOOKS**

1) *Thermoreversible Gelation of Polymers and Biopolymers*

267 pages, Academic Press London 1992

2) *Polymer-solvent Molecular Compounds*

304 pages, Elsevier, London, 2008

### **ORGANIZATION OF WORKSHOP AND CONFERENCES**

1) Organizer of *Polymer-solvent Complexes and Intercalates* sponsored by the European Physical Society (1-5/07/1996, Meyrueis, France)

2) Organizer of the Indo-french symposium « *Fibrillar Networks as Advanced Materials* », financed by IFCPAR (Strasbourg, 21-23/09/2005).

3) Organizer of POLYSOLVAT-7, Marrakech, Morocco, May 2008

4) Organizer of **POLYSOLVAT-8**, IUPAC conference, Strasbourg, 5-8 July 2010.

5) Co-organizer Indo-French symposium « *Self-assembled hybrid systems : materials for the future ?* », funded by IFCPAR (Trivandrum, India, 5-8 March 2011).

### **EDITOR**

1) Symposium Editor **Macromolecular Symposia vol. 114 year 1997** *Polymer-solvent Complexes and Intercalates*;

2) Symposium Editor **Macromolecular Symposia vol. 166 year 2001** *Polymer-solvent Complexes and Intercalates*;

3) Symposium Co-editor **Macromolecular Symposia vol. 241 year 2006** *Fibrillar Networks as Advanced Materials*.

4) Symposium Editor **Macromolecular Symposia vol. 273 year 2008** *POLYSOLVAT-7*

5) Symposium Editor **Macromolecular Symposia vol. 303 année 2011** *POLYSOLVAT-8*

### **COORDINATION OF INTERNATIONAL COLLABORATIVE NETWORKS**

1) Coordinator of an European Network of 5 laboratories as part of the *Human Capital and Mobility* program (1993-1996): *Polymer-solvent organization in relation to polymer chain microstructure*

2) Coordinator of IFCPAR contrat 2002-2005 (Indo-french centre for the promotion of advanced research )  
« *Multiporous polymer membranes* »

3) Coordinator of IFCPAR contrat 2007-2010 (Indo-french centre for the promotion of advanced research ) « *Hybrides materials from polymer and self-assembled molecules* »

4) Coordinator contract PAI (DNIPRO) T. Shevchenko University, Kiev (Ukraine)

5) Coordinator NATO contract TAN T. Shevchenko University, Kiev (Ukraine)

### **ADMINISTRATIVE DUTIES**

1) Chairman of the 'Conseil de gestion' of ICS (1987-1988)

2) General secretary to the GFP (French polymer group), 2009-2011

3) Head of Institute Charles Sadron as of 01/01/2012

**COMMITTEES**

- 1) Member of the committee of URA 507 (1992)
- 2) Member of the *American Chemical Society, American Physical Society, New-York Academy of Sciences*
- 3) Co-chairman POLYSOLVAT-7, Marrakech, Maroc, May 2008
- 6) Member of the Editorial Board of "*The open macromolecules journal*"
- 7) College Member (2010-2014) EPSRC (Engineering and Physical Science Research Council), GB.
- 8) Member of the scientific council of POLYCHAR (<http://www.unt.edu/POLYCHAR/>)

**TEACHING**

- 1) 1995-1996, 2000-200, visiting professor Mons-Hainaut University..
- 2) 1991-1992, course on radiation scattering at Université Louis Pasteur.
- 3) 2002, visiting professor Shizuoka University (Japan), JSPS grant.
- 4) 2004, 2005 course on « *Thermoreversible Gels* » Master **Chemistry and Physics of Polymers, Materials, Surfaces**, Université Louis Pasteur, Strasbourg.
- 5) 2009, visiting professor Shizuoka University (Japan), grant from Nakajima Foundation.

**ISI DATA**

h= 28 (book, over 460 citations, is not included); number of citations (articles)= 2480 ; number of citations including those on my books: 2960)

**INVITED CONFERENCES**

1. **J.M. GUENET, A. KELLER**  
*PVC thermoreversible gels : effect of preparation and thermal treatment on the crystalline junctions.*  
6ème Colloque Européen du "Network Group", Strasbourg, 29.6 - 2.7.1982.
2. **J.M. GUENET**  
*Thermodynamics and morphology of isotactic polystyrene physical gels.*  
US-France joint seminar on the Physics and Chemistry of Gelation, Sophia-Antipolis (06), 16 - 19.4.1984.
3. **J.M. GUENET**  
*Contribution of neutron scattering to the determination of chain trajectory in semi-crystalline iPS.*  
Non-destructive evaluation of polymers, Vimeiro, Portugal, 2-7.9.1984.
4. **P.H. MUTIN, S.J. CANDAU, J.M. GUENET**  
*Light scattering study of the sol-gel transition in PVC solutions.*  
ESF Workshop on Solution conformation and dynamics of linear polymers, Galzignano, Italie, 30.9 - 4.10.1985.
5. **J.M. GUENET**  
*Les gels physiques.*  
Dans le cadre du DEA de Chimie-Physique, Université de Strasbourg, janvier 1986.
6. **J.M. GUENET**  
*Trajectoire de la chaîne par diffusion des neutrons dans un polymère cristallin.*  
Journée Belge des Polymères, Mons, Belgique, 20.5.1986.
7. **J.M. GUENET, P.H. MUTIN, S.J. CANDAU**  
*Light scattering and viscometric study of PVC solutions in the pregel state.*  
Network 86, Elseneur, Danemark, 1-5.9.1986.
8. **J.M. GUENET**  
*An attempt to correlate thermodynamics, molecular structure, and rheology in iPS thermoreversible gels.*  
ESF Workshop "Thermodynamics and Polymer Rheology", Mayence, R.F.A., 23-24.3.1987.
9. **J.M. GUENET**  
*Gels thermoreversibles.*  
10èmes Journées Scientifiques Rhône-Poulenc, Lyon (69), 13-15.10.1987.
10. **J.M. GUENET**  
*Thermoreversible gels: molecular structures in atactic and isotactic polystyrene.*  
Gordon Conf. (west), "Phase Transitions in Polymers", Ventura, U.S.A., 2-6.1.1989.
11. **J.M. GUENET**  
*Structure formation in polymer solutions.*  
22nd Europhysics Conference on Macromolecular Physics "Structure in Polymer Solutions: their Origin and Implication on Physical Gelation", Leuven, Belgique, 25-27.9.1989.
12. **J.M. GUENET**  
*Molecular Morphology of Isotactic Polystyrene Chains in the Semi-crystalline State and in Thermoreversible Gels.*  
March Meeting of The American Physical Society, Anaheim (CA USA) 11-16 mars 1990  
Conférence donnée à l'occasion de la remise de la médaille DILLON

13. **J.M. GUENET**  
*Gelation of isotactic polystyrene*  
ACS meeting on "Thermoreversible Gelation"  
New-York (NY USA) 26/29 aout 1991
14. **J.M. GUENET**  
*Gels physiques de polymères synthétiques*  
12eme Colloque "Chromatographie d'exclusion stérique"  
Lyon (69) 19-20 septembre 1991
15. **J.M. GUENET**  
*Crystallization and Gelation in the system iPS/cis-decalin*  
NATO Advanced Research Workshop "Crystallization of polymers"  
Mons (Belgique) 7-11 septembre 1992
16. **J.M. GUENET**  
*Molecular structures in thermoreversible gels*  
2<sup>nd</sup> workshop on Polymer-solvent organization in relation to chain microstructure  
San Lorenzo de El Escorial (Espagne) 14-16 septembre 1994
17. **J.M. GUENET**  
*Thermoreversible gelation of polymers*  
25<sup>eme</sup> Reunion Biennial Real Sociedad Española de Quimica 1994  
Vitoria (Espagne) 25-29 septembre 1994
18. **J.M. GUENET**  
*Molecular Mechanisms promoting gelation versus chain-folded crystallization.*  
Meeting of The American Chemical Society.  
Anaheim (CA USA) 2-7 avril 1995
19. **J.M. GUENET**  
*Contribution of phase diagrams to the understanding of organized polymer-solvent systems*  
NATAS Conference, San Francisco (CA USA) 11-13 septembre 1995
20. **J.M. GUENET**  
*Factors influencing gelation vs chain-folding crystallization*  
Journées sur Les Propriétés Physiques et Mécaniques des Gels Polymériques et des Polymères Cristallins,  
Metz (57) 23-24 octobre 1995
21. **J.M. GUENET**  
*Part played by the Solvent in the Thermoreversible Gelation of Polymers*  
Polymer Networks 96, Doorn (Pays-Bas), 2-6 septembre 1996
22. **J.M. GUENET**  
*A Bicopper Organic Complex in a Thermoreversible Gel Matrix*  
Int. EPS Conference on Electronic Processes in Organic Materials, Kiev (Ukraine), 18-22 mai 1998
23. **J.M. GUENET**  
*Polymer-solvent organisation in relation to chain microstructure*  
Osaka University Macromolecular Symposium (OUMS '98), Osaka (Japon), 3-6 juin 1998
24. **J.M. GUENET**  
*Complex Formation through Heterogeneous Nucleation of Thermoreversible Gelation*  
2<sup>nd</sup> Int. Conference on Polymer-Solvent Complexes and Intercalates, Ischia (Italie), 31/08-4/09 1998
25. **J.M. GUENET, C. ROCHAS**  
*Agarose Sols and Gels revisited*  
2<sup>nd</sup> COST Workshop on Biopolymer Assemblies Engineering, Rome (Italy), 28-29/05/1999
26. **J.M. GUENET**  
*Structure vs properties in Thermoreversible Gels from Polymers and Biopolymers*  
71<sup>st</sup> Rheology Society meeting, Symposium Honoring J.D. Ferry, Madison (USA) 18-20 octobre 1999.
27. **J.M. GUENET**  
*Capture of small molecules by the formation of polymer-solvent intercalates*  
3rd Conference on Carpathian Euroregion Ecology (CERECO 2000), Miskolc (Hongrie) 21-24 mai 2000.
28. **J.M. GUENET**  
*Encapsulation of a self-assembled bicopper complex in polymer nanowires*  
SLAP2000 (7th Symposio Latino-americano de Polimeros), La Havane (Cuba) 20-24 novembre 2000
29. **J.M. GUENET**  
*Preparation of Porous Polymer Structures for Trapping Solvent Molecules*  
2<sup>nd</sup> International Conference on "Interfaces against Pollution" and NATO Adanced workshop on ; Miskolc  
(Hongrie) 27-30 mai 2002
30. **J.M. GUENET**  
*Polymer-solvent Compounds and Intercalates Prepared under various Conditions*  
4<sup>nd</sup> Int. Conference on Polymer-Solvent Complexes and Intercalates, Prague (République Tchèque) 22-25  
juillet 2002

31. **J.M. GUENET**  
*Encapsulation of Magnetic Self-assembled Systems in Thermoreversible Gels*  
16<sup>th</sup> Polymer Networks Group Meeting, Autrans (France) 2-5 septembre 2002
32. **J.M. GUENET**  
*Polymer-solvent Complexes: from Gels to Solids*  
THE 2002 JOYKISSEN MOOKERJEE ENDOWMENT LECTURE  
Indian Association for the Cultivation of Science, Calcutta, 5 décembre 2002
33. **J.M. GUENET**  
*Fibrillar Thermoreversible Gels as Encapsulating Media*  
MACRO2002 (7<sup>th</sup> National Conference of the Society for Polymer Science of India), Kharagpur (Inde), 9-11 décembre 2002
34. **J.M. GUENET**  
*Effect of Polymer Tacticity on the Molecular Structure of Polyelectrolyte/Surfactant Stoichiometric Complexes in Solutions and Gels*  
PHYSICS OF LIQUID MATTER: MODERN PROBLEMS, 2<sup>nd</sup> International Conference Kiev (Ukraine), 12-15 septembre 2003 (Opening Lecture)
35. **J.M. GUENET**  
*Polymer Nanowires with Encapsulated Magnetic Self-Assembled Filaments*  
POLYMERS IN XXI CENTURY, Kiev (Ukraine), 27-30 octobre 2003 (Plenary Lecture)
36. **J.M. GUENET**  
*Stereoregular Polyelectrolyte/Surfactant Stoichiometric Complexes*  
5<sup>nd</sup> Int. Conference on Polymer-Solvent Complexes and Intercalates, Lorient (France), 11-13 juillet 2004
37. **J.M. GUENET**  
*Complex Polymer-solvent Complexes*  
Colloquium on *Perspectives in Polymer Science and Technology*, Calcutta (Inde), 11 Décembre 2004
38. **J.M. GUENET**  
*Polymer-solvent Complexes and Intercalates: thermodynamics, morphology, molecular structure, application*  
MACRO2004, (International Conference on Polymers for Advanced Technology), Thiruvananthapuram (Inde), 15-17 Décembre 2004
39. **J.M. GUENET**  
*Supramolecular Polymer from a Self-assembled Bicopper Complex in Organic Solutions and in Covalent Polymer Solutions*  
Workshop on *Equilibrium and non-equilibrium Properties of Self-assembled Polymers*, Strasbourg, 10-11 janvier 2005
40. **J.M. GUENET, C.ROCHAS**  
*Agarose Sols and Gels revisited*  
5<sup>eme</sup> Journées des Polymères Organiques et leurs Applications (JPOA V) Oujda, Maroc, 28-29 Avril 2005
41. **J.M. GUENET**  
*Preparation and magnetic properties of nanowires consisting of 1-D filaments of a self-assembling bicopper complex encapsulated in polymer fibrils*  
11<sup>th</sup> IUPAC International Symposium on *Macromolecule-Metal Complexes* (MMC-11), Pisa (Italie), 10-13 septembre 2005
42. **J.M. GUENET**  
*Thermoreversible Gelation vs Polymer- Solvent Compound Formation*  
POLYMER 2006, Kolkata (Inde), 10-12 février 2006
43. **J.M. GUENET**  
*Light, Neutrons, X-Rays Scattering by Polymer Systems*  
Tutorial lecture dans le cadre de l'IUPAC et de POLYCHAR-14  
POLYCHAR-14, Nara (Japon), 16 avril 2006
44. **J.M. GUENET, C. ROCHAS**  
*Agarose Sols and Gels revisited*  
POLYCHAR-14, IUPAC Conference, Nara (Japon), 17-22 avril 2006
45. **J.M. GUENET**  
*Thermoreversible Gelation vs Polymer-solvent Compound Formation*  
China-France Bilateral Workshop on Polymer Crystallization, Nanjing (Chine), 6-9 juin 2006
46. **J.M. GUENET**  
*Networks of Polymer Fibrils encapsulating magnetic self-assembling filaments*  
Int. Conference on Electronic Processes in Organic Materials (ICEPOM-6), Gurzuf (Ukraine), 25-29 septembre 2006
47. **J.M. GUENET**  
*Syndiotactic Polystyrene Molecular Compounds*  
MACRO2006, Pune, (Inde), 16-20 decembre 2006

48. **J.M. GUENET**  
*Light, Neutron, X-ray Scattering by Polymer Systems*  
 Tutorial lecture dans le cadre de l'IUPAC et de POLYCHAR-15  
 POLYCHAR-15, Buzios (Brésil), 16-20 avril 2007
49. **J.M. GUENET**  
*Polymer-solvent Molecular Compounds: case of Syndiotactic Polystyrene*  
 POLYCHAR-15, IUPAC Conference, Buzios (Brésil), 16-20 avril 2007  
*Molecular compounds from syndiotactic Polystyrene*  
 Polymers in Nanomaterials, Salerno, (Italie), 27-28 septembre 2007
51. **J.M. GUENET**  
*Hybrid materials prepared from polymers and self-assembled systems by physical processes*  
 Novel Materials and Synthesis-III, and Fine Chemistry and Function Polymer XVII, Shanghai, Chine, 17-21 octobre 2007
52. **J.M. GUENET**  
*Polymer-solvent Molecular Compounds*  
 Conference at the Indian Society for Polymer Science, Thiruvananthapuram Chapter, 17/12/2007
53. **J.M. GUENET**  
*Light, Neutron, X-ray Scattering by Polymer Systems*  
 Tutorial lecture dans le cadre de POLYCHAR-16, IUPAC, Lucknow, (Inde), 17-21 février 2008
54. **J.M. GUENET**  
*Hybrid nanomaterials from covalent polymers and supramolecular polymers*  
 POLYCHAR-16, IUPAC, Lucknow, (Inde), 17-21 février 2008
55. **J.M. GUENET**  
*Functional nanomaterials from hybrid polymer/self-assembled systems gels*  
 Int. Conf. on functional materials and devices (ICFMD-2), Kuala Lumpur (Malaisie), 16-19/06/2008
56. **J.M. GUENET**  
*Diffusion et diffraction des neutrons pour l'étude des polymères et des systèmes auto-assemblés*  
 Colloque Apollor, Analyse des Polymères par Rayonnement, 5-6 février 2009, Nancy  
*Hybrid nanomaterials from polymer gels and organogels.*  
 MACRO 2009, 9-11 mars, Chennai (Inde)
58. **J.M. GUENET**  
*Light, Neutron, X-ray Scattering by Polymer Systems*  
 Tutorial lecture dans le cadre de POLYCHAR-17, IUPAC, Rouen, 20-24 avril 2009
59. **J.M. GUENET**  
*Intermingled polymer gels and organogels*  
 POLYCHAR-17, IUPAC, Rouen, 20-24 avril 2009
60. **J.M. GUENET**  
*Hybrid materials from polymer gels and organogels*  
 SUPRACHEM V, Kiev, Ukraine, 12-15 mai 2009
61. **J.M. GUENET**  
*Thermoreversible polymer gels as hosts to functional self-assembled systems*  
 2<sup>nd</sup> International workshop on soft matter and biological systems, 28-30 avril 2010, Fes, Maroc
62. **J.M. GUENET**  
*Gels thermoréversibles et systèmes auto-assemblés: apport des neutrons*  
 JDN18, 18<sup>ème</sup> Journées de la Société Française de Neutronique, 8-10 juin 2010, Remuzat, France
63. **J.M. GUENET**  
*Functional self-assembled systems hosted by a thermoreversible polymer gel*  
 MACRO 2010, New-Delhi, Inde 15-17 Décembre 2010
64. **J.M. GUENET**  
*Polymer hosting self-assembled systems for preparing functional materials*  
 II International Conference on functional polymers, 28-30/01/2011, National Institute of Technology, Calicut, Kerala, India
65. **J.M. GUENET**  
*Self-assembled systems/polymers hybrid materials*  
 Indo-French seminar CEFIPRA-IFCPAR *Self-assembled hybrid systems: materials for the future*, Trivandrum, Kerala, Inde, 2-4/03/2011
66. **J.M. GUENET**  
*Polymer characterization by scattering methods*  
 Tutorial lecture à POLYCHAR-19, IUPAC, Katmandou, Népal, 20-24 mars 2011
67. **J.M. GUENET**  
*Hybrid materials from functional self-assembled systems hosted by a fibrillar polymer gel*  
 POLYCHAR-19, IUPAC, Katmandou, Népal, 20-24 mars 2011

## PUBLICATIONS 2004-2011

1. **S. ELHASRI , B. RAY, A. THIERRY, J.M. GUENET**  
Solvent-induced organization of isotactic polystyrene  
*Macromolecules* **2004** 37 4124
2. **W. LIU, J.M. GUENET, M.M. GREEN,**  
Chiral Effect of a Self-assembling Bicopper Complex  
*Chirality* **2004** 16 661
3. **J.M. GUENET**  
Molecular structure of polyelectrolyte/Surfactant complexes vs polymer tacticity  
*Journal of Molecular Liquids* **2005** 120 3
4. **S. MALIK, C. ROCHAS, J.M. GUENET**  
Syndiotactic Polystyrene/Naphthalene intercalates: preparing thermoreversible fibrillar gels from a solid solvent  
*Macromolecules* **2005** 38 4888
5. **S. MALIK, C. ROCHAS, B. DEME, J.M. GUENET**  
Thermoreversible Gelation of Syndiotactic Polystyrene in Naphthalene  
*Macromolecular Symposia* **2005** 222 73
6. **D. DASGUPTA, S. MANNA, S. MALIK, C. ROCHAS, J. M. GUENET, A. K. NANDI**  
Thermoreversible Gelation of Poly(vinylidene fluoride) – Camphor System  
*Macromolecular Symposia* **2005** 222 175
7. **J.F. WAGNER, M. DOSIERE, J.M. GUENET**  
Temperature-Concentration Phase Diagram of PEO-urea  
*Macromolecular Symposia* **2005** 222 121
8. **J.M. GUENET**  
Stereoregular Polyelectrolyte/Surfactant Stoichiometric Complexes  
*Macromolecular Symposia* **2005** 222 15
9. **N. KUTSEVOL, J.M. GUENET, N. MELNIK, C. ROSSI**  
Intramolecular Polycomplexes Formed by Dextran-Grafted Polyacrylamide: Effect of the Components Molecular Weight  
*Macromolecular Symposia* **2005** 222 219
10. **D. DASGUPTA, S. MANNA, S. MALIK, C. ROCHAS, J. M. GUENET, A. K. NANDI**  
Thermodynamic Structural and Morphological Investigation of Poly[vinylidene fluoride]/Camphor Systems: Preparing Porous Gels from a Solid Solvent  
*Macromolecules* **2005** 38 5602
11. **S. MALIK, C. ROCHAS, M. SCHMUTZ, J.M. GUENET**  
Syndiotactic Polystyrene intercalates from Naphthalene Derivatives  
*Macromolecules* **2005** 38 6024
12. **S. MALIK, C. ROCHAS, J.M. GUENET**  
Thermodynamic and Structural Investigations on the Different forms of Syndiotactic Polystyrene Intercalates  
*Macromolecules* **2006** 39 1000
13. **A.K. NANDI, J.M. GUENET**  
Fibrillar networks as advanced materials. Indo-french conference  
*Macromolecular Chemistry and Physics* **2006** 207 125
14. **N. KUTSEVOL, J.M. GUENET, N. MELNYK, D. SARAZIN, C. ROCHAS**  
Solution properties of Dextran-Polyacrylamide graft copolymers  
*Polymer* **2006** 47 2061
15. **J.M. GUENET, S. POUX, A. THIERRY**  
Some Properties of Nanomaterials prepared through the Encapsulation within Polymer Fibrils of 1-D Filaments of a Self-assembled Bicopper Complex  
*Macromolecular Symposia* **2006** 235 25
16. **S. POUX, S. MALIK, M. DOSIÈRE, A. THIERRY, J.M. GUENET**  
Thermoreversible Gelation of Poly[hexyl isocyanate]: Effect of Solvent Type  
*Polymer* **2006** 47 5596
17. **J.-M. GUENET**  
Microfibrillar Networks: Polymer Thermoreversible Gels vs Organogels  
*Macromolecular Symposia* **2006** 241 45
18. **D. DASGUPTA, S. MALIK, A. THIERRY, J. M. GUENET, A. K. NANDI**  
Thermodynamics, Morphology and Structure of Poly[vinylidene fluoride]/Ethyl acetoacetate Systems  
*Macromolecules* **2006** 39 6110

19. **S. MALIK, D. ROIZARD, J.M. GUENET**  
Multiporous Material from Fibrillar Syndiotactic Polystyrene Intercalates  
*Macromolecules* **2006** 39 5957
20. **J.M. GUENET, C. ROCHAS**  
Agarose sols and gels revisited  
*Macromolecular Symposia* **2006** 242 65
21. **C. VISWANATHAN, P. MÉSINI, J.-M. GUENET**  
Sheathing Polymer Gels Fibrils with Nanotubules  
*Macromolecular Symposia* **2007** 251 11
22. **D. SARAZIN, M. SCHMUTZ, A. PETITJEAN, J.M. LEHN, J.M. GUENET**  
Structure of supramolecular polymers generated via self-assembly through hydrogen bonds  
*Molecular Crystals and Liquid Crystals* **2007** 467 539
23. **J. M. GUENET**  
Polymer-Solvent Molecular Compounds: A Brief Presentation  
*Macromolecular Symposia* **2007** 258 179
24. **D. DASGUPTA, S. MANNA, A. GARAI, A. DAWN, C. ROCHAS, J. M. GUENET, A. K. NANDI**  
Morphology, Structure, Rheology, and Thermodynamics of Piezoelectric Poly(vinylidene fluoride)-Ethylene Carbonate Thermoreversible Gel  
*Macromolecules* **2008** 41 779
25. **D. DASGUPTA, J. M. GUENET, A. K. NANDI**  
Thermoreversible poly(vinylidene fluoride) gels: a precursor to multiporous polymeric materials  
*Macromolecular symposia* **2008** 273 73
26. **E. FERNANDEZ, C. MIJANGOS, J.-M. GUENET, M. T. CUBERES, D. LOPEZ**  
New hydrogels based on the interpenetration of physical gels of agarose and chemical gels of polyacrylamide.  
*European Polymer Journal* **2009** 45 932
27. **D. DASGUPTA, S. SRINIVASAN, C. ROCHAS, A. AJAYAGHOSH, J. M. GUENET**  
Hybrid thermoreversible gels from covalent polymers and organogels  
*Langmuir* **2009** 25 8593
28. **S. SUSHKO, D. SARAZIN, C. ROCHAS, N. KUTSEVOL, J.M. GUENET**  
Anomalous behaviour of comb-like dextran-polyacrylamide copolymers in mixed solvents  
*European Polymer Journal* **2009** 45 1698
29. **A. DAWN, C. ROCHAS, J.M. GUENET**  
Molecular compounds from ternary systems of syndiotactic polystyrene  
*Macromolecules* **2009** 42 6633
30. **D. DASGUPTA, Z. KAMAR, C. ROCHAS, M. DAHMANI, Ph. MESINI, J.M. GUENET**  
Design of hybrid networks by sheathing polymer fibrils with self-assembled nanotubules  
*Soft Matter* **2010** 6 3576
31. **E. MORIN, J.M. GUENET, D. DÍAZ DÍAZ, J.S. REMY, A. WAGNER**  
Fine-Tuning the Morphology of Self-Assembled Nanostructures of Propargyl Ammonium-Based Amphiphiles.  
*Journal of Physical Chemistry B* **2010** 114, 12495
32. **D. DASGUPTA, S. SRINIVASAN, C. ROCHAS, A. THIERRY, A. SCHRÖDER, A. AJAYAGHOSH, J.M. GUENET**  
Insight into the gelation habit of oligo(*para*-phenylene vinylene) derivatives: effect of end-groups  
*Soft Matter* **2011**, 7, 2797
33. **J.M. GUENET**  
Nouveaux types de matériaux hybrides : polymère/système auto-assemblé  
*Matériaux & Techniques* **2010**, 98, 329
34. **A. PERINO, A. KLYMCHENKO, A. MORERE, E. CONTAL, A. RAMEAU, J.M. GUENET, Y. MELY, A. WAGNER**  
Structure and Behavior of Polydiacetylene-Based Micelles  
*Macromolecular Chemistry and Physics* **2011**, 212, 111
35. **J.M. GUENET, C. DANIEL, J. PARMENTIER**  
Porous materials from polyvinylidene fluoride/solvent molecular compounds  
*Soft Materials* **2011**, 9, 280
36. **T. SAGO, T. TOKAMI, H. ITAGAKI, N. ISHIHARA, C. CANTER, J.M. GUENET**  
Physical gels of a syndiotactic polystyrene derivative with a large side-chain group  
*Macromol. Symp.* **2011**, 303, 48
37. **C. CHAKRABORTY, S. MALIK, J.M. GUENET**  
Syndiotactic Polystyrene / Fullerene Composites: Elucidation of Structural Aspect  
*Macromol. Symp.* **2011**, 303, 56

38. **D. DASGUPTA, S. SRINIVASAN, A. AJAYAGHOSH, J.M. GUENET**  
Effect of Solvent on the Morphology and Microstructure of Light Emitting Organogels  
*Macromol. Symp.* **2011**, 303, 134
39. **D. DASGUPTA, S. SRINIVASAN, C. ROCHAS, A. AJAYAGHOSH, J.M. GUENET**  
Solvent-mediated fiber growth in organogels  
*Soft Matter* **2011**, 7, 9311.

## SUPERVISION OF STUDENTS (MASTER AND PHD)

### 1) **Y.S. GAN**

Master Physico-chimie Macromoléculaire (juin 1984)

**PhD thesis**, Université Louis Pasteur (28/4/1986).

*Etude et origine de la gélification physique du polystyrène atactique.*

### 2) **P.H. MUTIN**

**PhD thesis**, Université Louis Pasteur (6/5/1986).

*Etude de la gélification physique du poly(chlorure de vinyle).*

### 3) **X. HE**

**PhD thesis**, Université Louis Pasteur (16/6/1986).

*Synthèse et caractérisation d'un copolymère multiséquentiel contenant des séquences cristallisables. Etude de ses gels physiques.*

### 4) **M. KLEIN**

Master Physico-chimie Macromoléculaire (juin 1987)

**PhD thesis**, Université Louis Pasteur (29/9/1989).

*Etude de la structure moléculaire des gels thermoréversibles de polystyrène: rôle du solvant.*

### 5) **M. NAJEH**

**PhD thesis** (11/02/1992).

*Etude du gonflement et des propriétés rhéologiques des gels de PVC.*

### 6) **Z. FAZEL**

DEA de Mécanique (juin 1990)

**PhD thesis**, Université Louis Pasteur (17/11/1992)

*Etude de la structure et des propriétés rhéologiques des gels physiques de poly(méthacrylate de méthyle) (PMMA).*

### 7) **V. SCHAFFHAUSER**

**PhD thesis**, Université Louis Pasteur (19/07/1994)

*Etude de deux systèmes autoorganisés: polystyrène isotactique/cis-décane et tétraoctanoate de cuivre II/cyclohexane.*

### 8) **M. DAHMANI**

Master Mécanique (juin 1991)

**PhD thesis**, Université Louis Pasteur (07/07/1995)

*Etude des gels et des pré-gels de poly(chlorure de vinyle) (PVC): rôle du solvant.*

### 9) **P. REINHEIMER**

Master Chimie-Physique (juin 1993), Université Louis Pasteur

*Etude des systèmes ternaires des gels thermoréversibles de gélatine*

### 10) **C. DAMMER**

**PhD thesis, European thesis**, Université Louis Pasteur (01/12/1995)

*Gélification thermoréversible du système éthyl-2-hexanoate de cuivre/décane. Structure et propriétés d'un polymère vivant en milieu organique*

### 11) **P. CARL**

Master Chimie-Physique (juin 1995), Université Louis Pasteur

*Etude rhéologique de gélées d'éthyl-2 hexanoate de cuivre dans la cis- et la trans-décane*

### 12) **M. RAMZI**

**PhD thesis**, Université Louis Pasteur (28/05/1996)

*Gélification Thermoréversible d'un Biopolymère en solvant binaire: cas de l'agarose.*

### 13) **C. DANIEL**

Master Physique de la Matière Condensée (juin 1991), Université Louis Pasteur

**PhD thesis, European thesis**, Université Louis Pasteur (08/06/1996)

*Etude de la gélification thermoréversible du polystyrène syndiotactique.*

### 14) **A. SAIANI**

Master Physique de la Matière Condensée (juin 1993)

**PhD thesis, European thesis**, Université Louis Pasteur (08/04/1997)

*Etude de la Gélification Thermoréversible du poly[méthyl méthacrylate] syndiotactique*

### 15) **F. SCHWEYER**

Master Physico-chimie Macromoléculaire (juin 1998), Université Louis Pasteur

*Etude de la corrosion physique des polymères stéréoréguliers*



16) **S. POUX**

*PhD thesis*, Université L. Pasteur (27/11/ 2002)

*Etude et caractérisation de nanomatériaux obtenus par encapsulation*

17) **R. SOUCHKO**

*Co-supervised PhD thesis*, Université L. Pasteur-Université T. Shevchenko, Kiev (Ukraine), in progress

*Structure et propriétés de copolymères greffés polysaccharide-polyacrylamide*

17) **Z. KAMAR**

*Co-supervised PhD thesis*, Université de Strasbourg-Université d'Oujda, Oujda (Maroc), in progress

*Préparation de gels hybrides polymère+ système auto-assemblé*

**VISITING SCIENTIST**

1) **G.B. McKENNA**, NIST, Washington, 1/04/1986 au 1/10/1986 (CNRS position)

*Rhéology and thermodynamics of iPS thermoreversible gels*

2) **C. MIJANGOS** Senior research scientist, Instituto de Ciencia y Tecnologia de Polimeros), CSIC MADRID, Spain, from 1/05/1993 to 30/09/1993, spanish government grant.

*Structure of chemically-modified PVCgels*

3) **J. SPEVACEK** Head of laboratory for Spectroscopy, Institute of Macromolecular Chemistry, Prague, (du 1/04/1994 au 31/07/1994), grant from french ministry of research.

*PMMA gels: investigation of chain helicity by neutron diffraction and calorimetry.*

4) **M. DAHMANI** assistant professor Oujda University, Morocco (each visit of 6 months, 1996, 1997, 1998).

*Chemically-modified agarose gels*

5) **S. ELHASRI**, assistant professor, Université d'Oujda, Maroc (each visit of 5 months : 2000, 2002, 2003)

*Polymer-solvent complexes and polyelectrolytes/surfactants complexes*

6) **N. KUTSEVOL**, Senior research Scientist, Université T. Shevchenko, Kiev, Ukraine (each visit of 3 months 2002, 2004, 2005, 2006, 2007, 2009)

*Grafted copolymers Polydextrane-Polyacrylamide*

7) **H. ITAGAKI**, Professor Shizuoka University, Japan, CNRS position (3 mois de mai à Juillet 2007)

*Molecular compounds of syndiotactic polystyrene*

**POST-DOCTORAL FELLOWS AND VISITING STUDENTS**

1) **H. ABIED**, post-doctoral fellow, 1.12.1987 au 1.3.1989 (contrat Rhône-Poulenc).

*Gelation of PVC; investigation on PVC fibres (Rhovyl).*

2) **N. FAZEL**, post-doctoral fellow 1989-1991 (Rhône-Poulenc contract)

*PVC fibres prepared from PVC/acetone/CS2 mixtures.*

3) **M. DE LUCA**, post-doctoral fellow, Sheffield University, 1994-1995

European grant from *Human Capital Humain and Mobility.*

*Syndiotactic polystyrene/solvent molecular compounds*

4) **H. REINECKE**, post-doctoral fellow, Université de Freiburg, 1/09/1994-31/08/1995

European grant from *Human Capital Humain and Mobility.*

*Investigation on the structure of PVCgels by small-angle neutron scattering.*

5) **T.S. GRIGERA**, visiting PhD student, Universidad de La Plata (Argentina) (3 months 1996)

*Investigation on the structure of multiblock copolymer gels by small-angle neutron scattering.*

6) **D. LOPEZ**, post-doctoral fellow (contrat 2 ans Union Européenne, Training and Mobility of Researchers); 1/09/1996-1/09/1998

*Nanocomposite materials by heterogeneous nucleation:polymer gels+self-assembled system.*

7) **M. RAMZI**, post-doctoral fellow (Solvay contract) 01/02/1998-31/01/1999

*Polymer-solvent molecular compounds*

8) **J. SACRISTAN**, visiting PhD student Inst. de Ciencia y Tecnologia de Polimeros, Madrid (3 months 1999)

*Investigation by reflectometry on the glass transition of modified PVC surfaces*

9) **B. RAY**, post-doctoral fellow, Jadavpur University (India) (2000-2001)

*Solvent-induced polymer-solvent molecular compounds*

10) **R. HERNANDEZ**, visiting PhD student Inst. de Ciencia y Tecnologia de Polimeros, Madrid (3 months 2001)

*Gelation of polyvinyl alcohol*

11) **R. HERNANDEZ**, visiting PhD student Inst. de Ciencia y Tecnologia de Polimeros, Madrid (3 months 2002)

*Interpenetrated networks from chemical gels and physical gels*

12) **S. MALIK**, post-doctoral fellow, Université de Jadavpur, Inde (mars 2003 à mars 2005)

*Multiporous polymer membranes*

13) **Emilio FERNANDEZ**, visiting PhD student, Inst. de Ciencia y Tecnologia de Polimeros, Madrid (3 months 2004)

*Interpenetrated networks from chemical gels and physical gels*

14) **C. VISWANATHAN**, post-doctoral fellow, Université de Coimbatore, Inde (octobre 2005-octobre 2006)

*Making of composite nanomaterials from polymer/self-assembled systems through encapsulation*

- 15) **A. NARDALADKAR**, visiting PhD student Université de Bretagne-sud, Lorient (3 mois mai à juillet 2006)  
*Stereocomplexes from PDLA-PLLA*
- 16) **A. DAWN**, post-doctoral fellow, IACS, Calcutta (Novembre 2006-août 2007)  
*Ternary polymer-solvent molecular compounds*
- 17) **F. STOICA**, visiting PhD student Manchester University, (2 mois, mai et juin 2007)  
*Investigation by microDSC of self-assembled systems made up with synthetic peptides*
- 18) **C. CANTER**, visiting PhD student University of Colorado, USA (3 mois Mai à Juillet 2007)  
*Phase diagramme of syndiotactic poly ter-butyl styrene*
- 19) **D. DASGUPTA**, post-doctoral fellow, IACS, Calcutta, financement CEFIPRA (janvier 2008-janvier 2010)  
*Hybrid materials polymer/self-assembled systems*
- 20) **S. SRINIVASAN**, visiting PhD student Trivandrum University(India), CEFIPRA grant (octobre-novembre 2008)  
*Organogels structure*