
CURRICULUM VITAE

MENELLE Alain

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French, born on November 12nd 1958 at Longeville-les-Metz, France

Skills

After having started the LLB liquid diffractometer and used the first neutrons of ISIS, I upgraded the high flux powder diffractometer G61. Then I moved to neutron reflectivity learned at Argonne and NIST. In Saclay, I built the Eros reflectometer, and then organized our instrumental upgrade programs Orphée+, ALTOR and Cap2015. Beside organizing safety and communication of the LLB, I am now heavily involved in our participation in ESS.

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| Since 2013 | Deputy of the French representative at the IKC of the ESS. |
| Since 2009 | International Expert of the CEA for neutron instrumentation and Areva-TA advisor. |
| Since 2003 | In the team of direction at the Laboratoire Léon Brillouin, in charge of instrumentation, user office, safety, communication and budget spending. |
| 2004 – 2008 | Nominated at the section 05 of the « Comité National de la Recherche Scientifique » |
| 2002 | Yves Rocard price of the SFP for the work on neutron supermirrors. |
| 2001 – 2002 | CEA observer at the ESS R&D Council |
| 1999 – 2000 | Technicatome advisor on research reactors |
| 1994 – 2003 | Head of « Materials and Interfaces » group at the LLB, in charge of the time of flight reflectometer |
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Education :

- 1983-1987 : thesis of the Université Paris VI on the structure of amorphous silicon
- 1978-1982 : Ecole Supérieure de Physique et Chimie Industrielle in Paris (ESPCI)

Publications : H=23, 138 publications, 2 chapters of book

Current duties :

- Director advisor at the LLB
- Responsible of instrumental activities and of our instrumental upgrade program Cap2015
- In charge of the safety, communication and user office of the LLB
- Controls and organises the good realisation of the budget

Main publications :

Kugler S., Molnar G., Petš G., Zsoldos E., Rosta L., Menelle A., Bellissent R.
Neutron-diffract study of the structure of evaporated pure amorphous silicon
Physical Review B 40 (1989) 8030-8032

Menelle A., Russell T.P., Anastasiadis S.H., Satija S.K., Majkrzak C.F.
Ordering of thin diblock copolymer films.
Phys. Rev. Letters, 68, (1992), 67-70

Ballot B., Menelle A., Al Usta K., Farnoux B. Samuel F.
Supermirrors study by neutron multireflexions.
Journal de Physique IV-C8, 3, (1993), 471-474

Maaza M., Menelle A., Chauvineau J.P., Pardo B., Raynal A., Bridou F., Sella C., Megademiini T.
Monochromation and apodization with Ti-B4C multilayers in neutron optics
Physica B, 198, (1994), 231-234

Al Usta K., Gaehler R., Boeni P., Hank P., Kahn R., Koppe M., Menelle A., Petry W.
A new polarizing guide at LLB.
Physica B, **241-243**, (1997), 77-78

Fermon C., Ott F., Menelle A.
Neutron Reflectometry. In "X-Ray and neutron reflectivity: Principles and Applications", Chapter V, 163-194
Daillant J. and Gibaud A. (Eds.), Lecture Notes in Physics, Springer 1999

Marzolin C., Auroy P., Deruelle M., Folkers J.P., Léger L. and Menelle A.
Neutron reflectometry study of the segment -density profiles in the end-grafted and irreversibly adsorbed layers of polymers in good solvents.
Macromolecules, **34**, (2001), 8694-8700

N'Guy-Maréchal K., Menelle A., Gergaud P.
NiC/Ti supermirrors and stress evolution under neutron irradiation.
Journal of Neutron Research, **9**, (2001), 71-78

Bertagna, V.; Erre, R.; Saboungi, M.-L.; Petididier, S.; Levy, D.; Menelle, A.
Neutron reflectivity study of ultrathin SiO₂ on Si
Applied Physics Letters, (2004), vol. **84**, no. 19, pp. 3816-3818

Menelle A., Ott F.,
TilToF: A high-intensity space-time reflectometer.
Physica B: Condensed Matter (Amsterdam, Netherlands) (2006), **385-386**(Pt. 2), 985-988.

Ott Frederic, Menelle Alain
REFocus : A new concept for very high flux neutron reflectometer.
Nuclear Instruments & Methods in Physics Research, Section A ; (2008), **586**(1), 23-30

O. Roig1, V. Méot, B. Rossé, G. Bélier, J.-M. Daugas, A. Letourneau, A. Menelle, and P. Morell
Direct evidence for inelastic neutron acceleration by {177}Lu{m}
Physical Review C; (2011), **83**, 6 (DOI: 10.1103/PhysRevC.83.064617)

D. L. Anastassopoulos, N. Spiliopoulos, A. A. Vradis, C. Toprakcioglu, A. Menelle and F. Cousin
Neutron Reflectivity Study of End-Adsorbed Bimodal Polymer Systems under Static Conditions and Shear Flow
Macromolecules (2013), **46**, pp. 6972-80.