

Publications, Communications, etc. for Henry E. Fischer

1 Sept 2026: H-index = 47 (WoS), 54 (Google), >7600 citations (32.4/pub)

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INVITED SEMINARS

“Coherence and Correlation in neutron scattering,” Quantum Seminar Series (TU Wien, Vienna, Austria, 6 Dec 2024).

“Coherence and Correlation in neutron diffraction,” Toothbrush & Pyjamas seminar (ILL Diffraction Group Outing, Col de Porte, Chartreuse, 8 Oct 2024).

“BIFA: A new application of Fourier techniques in diffraction,” Cookies & Science seminar (ILL Diffraction Group, Grenoble, 19 Jan 2024).

“PDF-analysis of local structure in disordered materials,” HERCULES lecture (Grenoble, 17 March 2023).

“Total-scattering methods as a probe of local structure and correlated disorder in materials,” Plenary Lecture at the Maier-Leibnitz Zentrum (MLZ) User Meeting (Munich, 9 Dec 2022).

“From Q-space to R-space: Introduction to atomic and magnetic PDF-analysis,” Structure Group of the Technische Universität München (TUM) and Forschungs-Neutronenquelle Heinz Maier-Leibnitz (MLZ, FRM-II), Munich (via zoom), 11 May 2022 (part 1) and 22 June 2022 (part 2).

“From Q-space to R-space: Introduction to PDF-analysis,” tutorial à l’école HERCULES (Grenoble, 28 March 2022).

“From Q-space to R-space: Introduction to PDF-analysis,” tutorial à l’école HERCULES (Grenoble, 11 March 2020).

“Magnetic PDF-analysis: a real-space probe of static and dynamic short-range spin-spin correlations,” ILL Public Talk of the 101st Scientific Council meeting (ILL, Grenoble, 8 November 2019).

“The PhD pedagogical programme of the ILL Graduate School (IGS),” 100th ILL Scientific Council meeting (Château des Comtes de Challes, Challes les Eaux, 12 April 2019).

“From Q-space to R-space: Introduction to PDF-analysis,” tutorial à l’école HERCULES (Grenoble, 28 March 2018).

“From Q-space to R-space: Introduction to PDF-analysis,” Cookies & Science seminar (ILL Diffraction Group, Grenoble, 4 and 6 Oct 2016).

“The ILL’s updated Data Policy document,” ILL Science Advisory Board (SAB) meeting (ILL, Grenoble, 27 September 2016).

“Neutron diffraction on disordered systems,” tutorial à l’école HERCULES (Grenoble, 27 and 28 March 2016).

“Neutron powder diffraction and PDF-analysis,” au School on Physics and Chemistry of the Actinides (JdA-2016) (ILL, Grenoble, 15 March 2016).

“Diffractometer for liquids/glasses and disordered materials,” D4 instrument monitoring (ILL, Grenoble, 14 March 2016).

“Techniques in Diffraction (X or N): S(q), PDF analysis, Deconvolution,” Laboratoire des Composites ThermoStructuraux (LCTS), Bordeaux, 14 June 2013, and Institute of Organic Chemistry and Biochemistry (IOCB), Academy of Sciences of the Czech Republic, Prague, 24 March 2014.

“Resolution effects and deconvolution of diffraction data,” SciSoft coffee seminar (ESRF, Grenoble, 19 April 2013).

“What S(q) can do for you,” Technische Universität München (TUM) and Forschungs-Neutronenquelle Heinz Maier-Leibnitz (FRM-II), Munich, 10 Dec 2012.

“Science@D4,” DIF Group Outdoor Meeting (Chateau de la Baume, Seyssins, 10 Feb 2012).

“The D4 diffractometer for liquids/glasses and disordered materials,” ILL Instrument Review 2011 (ILL, Grenoble, 23 March 2011).

“Neutron Diffraction Science: D4c, D22, S18,” DIF Group Outdoor Meeting (Chateau de la Baume, Seyssins, 21 June 2007).

“DIF Instrumentation Development: D20, D4c, DRACULA,” DIF Group Outdoor Meeting (Chateau de la Baume, Seyssins, 20 June 2007).

“The DRACULA project: Current status,” ILL Instrument Subcommittee Meeting (Grenoble, 2 Feb 2007).

“Disorder and glassy behavior in ethanol at low temperature,” Hahn-Meitner Institut (HMI), Berlin, 5 Dec 2006.

“New scientific perspectives with DRACULA,” 75th meeting of the ILL Scientific Council (Grenoble, 10 Nov 2006).

“Liquids and glasses diffraction,” student training seminar à l’Institut Laue-Langevin (ILL), Grenoble, 13 June 2006.

“Collaboration possibilities between ESA and the ILL,” Institut Laue-Langevin (ILL), Grenoble, 27 Apr 2005.

“Determination of liquid and glass structures by neutron and x-ray diffraction,” tutorial à l’école HERCULES (Grenoble, 21 Mar 2005).

“Structure des liquides, des verres et des polymères par diffraction de neutrons et de rayons X,” Ecole Polytechnique, Palaiseau, 9 Mar 2005.

“Neutron and x-ray diffraction for structural studies of liquids and glasses,” au Workshop on Local Structure in Materials and Disorder in Crystalline Materials (Oak Ridge, TN, 1 Nov 2004).

“La diffraction des neutrons et des rayons X pour l’étude structurale des verres et des liquides,” à l’école thématique Neutrons et Matériaux (JDN10) (Trégastel, 16 May 2001).

“Diffuse x-ray scattering from multilayer interfaces as related to the stray light problem in XUV lithography,” Carl Zeiss, Oberkochen, 19 Feb 2001.

“Le système universitaire américain et sa comparaison au système français,” Université Paris-Sud, Orsay, 6 Feb 2001, 29 Jan 2002, 29 Jan 2003.

“Results and interpretation of D4c tests,” Institut Laue-Langevin (ILL), Grenoble, 15 Sept 2000.

“Disorder and glassy behavior in ethanol,” Physics Department, University of Arizona, Tucson, 4 Apr 2000.

“Determination of liquid and glass structures by neutron and x-ray scattering,” tutorial à l’école HERCULES (Grenoble, 30 Mar 1999).

“Le comportement vitreux vu à travers les différentes phases de l’éthanol,” Laboratoire de Physique des Solides (LPS), Orsay, 16 Feb 1999.

“Applications du rayonnement synchrotron à l’étude de la structure et de la dynamique des systèmes désordonnés,” Laboratoire pour l’Utilisation du Rayonnement Électromagnétique (LURE), Orsay, 15 Feb 1999.

“La structure des multicouches vis-à-vis des propriétés de transport/magnétisme des super-réseaux métalliques,” laboratoire CRISMAT (ISMRA), Caen, 22 Jan 1999.

“Applications of x-ray anomalous diffraction and neutron diffraction with isotopic substitution to structural studies of ordered and disordered materials,” European Synchrotron Radiation Facility (ESRF), Grenoble, 2 Dec 1998.

“Topical discussions on disordered systems: I. Introduction,” Institut Laue-Langevin (ILL), Grenoble, 21 Oct 1998.

“Comportement vitreux des phases de l’éthanol,” Laboratoire des Verres, Université Montpellier II, 3 June 1998.

“Études par diffraction des rayons X de la structure interfaciale de multicouches et de son influence sur les propriétés de transport et de magnétisme dans les super-réseaux métalliques,” Laboratoire de Physique des Matériaux (LPM), Université Henri Poincaré, Nancy, 23 Apr 1998.

“Determination of liquid and glass structures by neutron scattering,” tutorial à l’école HERCULES (Grenoble, 23 Mar 1998).

“Comportement vitreux de phases de l’éthanol,” Centre de Recherche sur les Très Basses Températures (CRTBT/CNRS), Grenoble, 20 Feb 1998.

“Études de structure interfaciale de multicouches par diffraction spéculaire et hors-spéculaire des rayons X,” Centre d’Élaboration de Matériaux et d’Études Structurales (CEMES/CNRS), Toulouse, 21 Jan 1998.

“Mesures de la chaleur spécifique de systèmes fermions lourds et d’autres études à basse température et en diffusion des neutrons,” IRSAMC, Université Paul Sabatier, Toulouse, 19 Jan 1998.

“Partial structure factor determination in neutron diffraction,” tutorial à l’école HERCULES (Grenoble, 25 Mar 1997).

“D4c: a new microstrip detector system,” Institut Laue-Langevin (ILL), Grenoble, 6 Mar 1997.

“Partial structure factor determination in neutron diffraction,” tutorial à l’école HERCULES (Grenoble, 28 Mar 1996).

“Études de structures artificielles par diffraction X spéculaire et hors-spéculaire,” à l’École sur le Rayonnement Synchrotron et les Sciences de la Matière GALERNE (Nouan-le-Fuzelier, 17–22 Sept 1995).

“Determination of liquid structures by neutron scattering,” tutorial à l’école HERCULES (Grenoble, 31 Mar 1995).

“Études structurales de multicouches par diffraction X anormale spéculaire et hors-spéculaire,” CECM Vitry, Paris (26 Apr 1994), LURE, Orsay (2 May 1994), and CEA Grenoble (16 May 1994).

“Diffraction anormale spéculaire et hors-spéculaire des rayons X dans des multicouches,” Laboratoire de Cristallographie (CNRS), Grenoble, 7 Feb 1994.

“In-situ time-resolved x-ray studies of eutectic crystallization in amorphous alloys,” University of Missouri, Columbia (Jan 1992), NIST, Gaithersburg (13 Feb 1992), and Advanced Photon Source, Chicago (spring 1992).

“Phonon blackbody radiation,” McGill University, Montréal (autumn 1989) and University of California at Berkeley (summer 1989).

“Low temperature physics in high temperature superconductors,” Low Temperature Group, Cornell University, Ithaca, 7 Apr 1988.

“Mischievous f electrons, or: What have they done to my heat capacity?,” séminaire ‘Humbles’ au sein des thésards en physique à Cornell University, 13 Aug 1986.

“A synopsis of relativistic S-matrix theory,” séminaire entre thésards du Physics Department, Cornell University, summer 1985.

CONFERENCE CONTRIBUTIONS (as speaker or first author)

(I don't attempt to estimate the number of conference talks and posters to which I contributed but was not speaker or first author)

"Magnetic frustration in SrLn_2O_4 compounds studied by magnetic PDF-analysis," oral contribution at the European Conference on Neutron Scattering (ECNS2019) (Saint Petersburg, 3 July 2019).

"Quantum effects in water as studied by ^{18}O isotopic substitution in neutron diffraction," exposé oral aux 20èmes Journées de la Diffusion Neutronique (JDN20) (Seignosse, 22–24 May 2012).

"R-space effects of Q-space resolution: Deconvolution of neutron diffraction data from a reactor source," poster à l'International Workshop on Analysis of Diffraction Data in Real Space (ADD2011) (ILL, Grenoble, 12–14 Oct 2011).

"Some notes on resolution effects in diffraction," poster à l'International Workshop on Powder Diffraction with 2-Dimensional Detectors (PD2DD) (ILL, Grenoble, 26–27 Feb 2008).

"Magnetic fluctuations in metallic liquids studied by SANS using a containerless aerodynamic levitation technique," poster à l'International Workshop on Current Challenges in Liquid and Glass Science (Spencerfest) (Cosener's House, Abingdon, 10 Jan 2007).

"Recent developments at the D20 instrument," poster à l'ILL Millennium Symposium and European Users Meeting (Grenoble, 28 Apr 2006).

"Dracula (Diffractometer for Rapid ACquisition)," poster à l'ILL Millennium Symposium and European Users Meeting (Grenoble, 28 Apr 2006).

"Structure des liquides et des verres par diffraction des neutrons et des rayons X," exposé oral **invité** au Colloque Grands Instruments des 9ème Journées de la Matière Condensée (JMC9) (Nancy, 31 Aug 2004).

"New diffractometers for new science at the ILL," exposé oral **invité** au Neutron and Muon Users Meeting (NMUM 2004) (Warwick University, Coventry, 29 June 2004).

"Neutron diffraction from high-temperature levitated melts," poster au Third European Conference on Neutron Scattering (ECNS 2003) (Montpellier, 3–6 Sept 2003).

"Diffraction from disordered systems," exposé oral **invité** au IUCr satellite meeting *Crystal Chemistry of New Materials & Soft Matter Studied by Synchrotron & Neutron Diffraction* (Grenoble, 1–3 Aug 2002).

"La complémentarité de la diffraction des rayons X et des neutrons pour l'étude des systèmes désordonnés," exposé oral **invité** à la Table Ronde des Journées Soleil Région Centre 2 (JSRC-2) (Orléans, 19 Feb 2002).

"Combined neutron and x-ray diffraction for structural studies of liquids and glasses," poster au ILL Millennium Symposium (Grenoble, 6–7 Apr 2001).

"Couplage neutrons/rayons-X pour l'étude structurale des verres et des liquides," exposé "clip" et poster aux 9èmes Journées de la Diffusion Neutronique (JDN9) (Colleville-sur-Mer, 24–26 May 2000).

“The D4c neutron diffractometer for liquids and glasses,” poster au Second European Conference on Neutron Scattering (ECNS’99) (Budapest, 1–4 Sept 1999).

“Les phases de l’éthanol: un système modèle pour l’étude quantitative du comportement vitreux,” exposé “clip” et poster aux 8èmes Journées de la Diffusion Neutronique (JDN8) (La Grande Motte, 19–21 May 1999).

“The D4 diffractometer for liquids and glasses,” exposé oral **invité** au Workshop *Review of neutron diffraction ILL instruments for powders and disordered systems* (Grenoble, 22–23 Mar 1999).

“Résultats des tests du détecteur prototype D4c à l’ILL,” exposé “clip” et poster aux 7èmes Journées de la Diffusion Neutronique (JDN7) (Albé, 13–15 May 1998).

“3 thèmes: Radiation de phonons du corps noir, Structure de multicouches par diffraction des rayons X, Comportement vitreux des phases de l’éthanol,” soutenance d’habilitation (DHDR), Grenoble, 24 Oct 1997.

“Disorder and glassy behavior in the solid phases of ethanol,” exposé oral **invité** au American Crystallographic Association (ACA) annual meeting (St. Louis, 24 July 1997).

“Polymorphic ethanol as a model system for the quantitative study of glassy behaviour,” exposé oral et proceeding au 5ème congrès de Disorder in Molecular Solids (DISMOS-5) (Garchy, 25–29 May 1997).

“Liquids and amorphous solids as studied using neutron scattering instruments and techniques at the ILL,” exposé oral **invité** au Workshop *What can neutrons do for you?* (Turin, 8–10 Jan 1997).

“Polymorphic ethanol as a model system for the quantitative study of glassy behavior,” exposé oral au First European Conference on Neutron Scattering (ECNS’96) (Interlaken, 8–11 Oct 1996).

“Polymorphic ethyl alcohol as a model system for the quantitative study of amorphous molecular solids,” poster au 3rd Liquid Matter Conference (Norwich, 6–10 July 1996).

“Études de structures artificielles par diffraction X spéculaire et hors-spéculaire,” poster aux 10ème Journées Surfaces et Interfaces (Grenoble, 1–2 Feb 1996).

“Neutron diffraction of liquids and amorphous solids at the ILL (D4 instrument),” poster au U.K. Neutron and Muon Beam Users’ Meeting (Manchester, 3–4 Apr 1995).

“Études structurales de multicouches par diffraction X anormale spéculaire et hors-spéculaire,” exposé oral à la Réunion de l’Association Française de Cristallographie (AFC) (Grenoble, 24–27 Jan 1995).

“Specular and off-specular anomalous x-ray scattering as quantitative structural probes of multilayers,” exposé oral au First European Conference on Synchrotron Radiation in Materials Science (Chester, 3–8 July 1994).

“Interfacial structure and giant magnetoresistance in Fe/Cr superlattices,” poster au Colloque LURE (Gif-sur-Yvette, 6–10 June 1994).

“Magnétorésistance géante et structure interfaciale de super-réseaux Fe/Cr,” poster et proceeding au Colloque Louis Néel *Couches Minces et Multicouches Magnétiques*

(Fouesnant-Cap Coz, 20–22 Apr 1994), et poster au 2ème Colloque *Jeunes Chercheurs en Physique* (Orsay, 17–18 Mar 1994).

“Interfacial structure and giant magnetoresistance in Fe/Cr superlattices,” poster au European Symposium on Frontiers in Science and Technology with Synchrotron Radiation (Aix-en-Provence, 5–8 Apr 1994).

“Giant magnetoresistance and interfacial diffusion in Fe/Cr superlattices,” poster **invité** au ESRS Congress (Grenoble, 22–23 Sept 1993).

“In-situ time-resolved x-ray studies of eutectic crystallization in amorphous $\text{Fe}_{1-x}\text{B}_x$ and $\text{Co}_{1-x}\text{Zr}_x$,” exposé oral au Materials Research Society Fall Meeting (Boston, 2–6 Dec 1991), et exposé oral au March Meeting of the American Physical Society (Indianapolis, 16–20 Mar 1992).

“Rapid eutectic crystallization in amorphous $\text{Fe}_{1-x}\text{B}_x$,” exposé oral au March Meeting of the American Physical Society (Cincinnati, 18–22 Mar 1991).

“Phonon blackbody radiation in anisotropic crystals,” exposé oral au March Meeting of the American Physical Society (New Orleans, 21–25 Mar 1988).

“Phonon specularity of polished crystal surfaces,” poster au March Meeting of the American Physical Society (New York, 16–20 Mar 1987).

“Specific heat measurements on heavy fermion metals,” exposé oral au March Meeting of the American Physical Society (Las Vegas, 31 Mar – 4 Apr 1986).

OTHER CONFERENCES ATTENDED (no contribution presented)

School and Conference on Analysis of Diffraction Data in Real Space (ADD2022) (ILL, Grenoble, 16–21 Oct 2022).

School and Conference on Analysis of Diffraction Data in Real Space (ADD2019) (ILL, Grenoble, 17–22 Mar 2019).

School and Conference on Analysis of Diffraction Data in Real Space (ADD2016) (ILL, Grenoble, 7–11 Mar 2016).

Festveranstaltung “10 Jahre FRM-II” (Physik Department der TUM, Garching bei München, 12 Mar 2014).

DIF Group Outdoor Meeting (Golf Grenoble Charmeil, Saint Quentin sur Isère, 31 Jan – 1 Feb 2013).

School and Conference on Analysis of Diffraction Data in Real Space (ADD2013) (ILL, Grenoble, 18–22 Mar 2013).

DIF Group Outdoor Meeting (Chateau de la Baume, Seyssins, 20–21 Jan 2011).

ILL 2020 Vision (World Trade Center, Grenoble, 15–17 Sept 2010).

DIF Group Outdoor Meeting (Chateau de la Baume, Seyssins, 3–4 Dec 2009).

ILL Scientists’ Outing (Villard de Lans, 25–27 Feb 2009).

Brainstorming Meeting to discuss the proposed ILL/ESRF Partnership for Extreme Conditions Science (9–10 Feb 2009).

DIF Group Outdoor Meeting (Chateau de la Baume, Seyssins, 23 Oct 2008).

SiMaDes-II Worskhop (ILL, Grenoble, 31 Jan–1 Feb 2008).

Total scattering PDF analysis using X-rays and neutrons: powder diffraction and complementary techniques (ESRF, Grenoble, 22–23 Oct 2007) – I chaired a session.

SKIN (Studying Kinetics with Neutrons) 2007 (Göttingen, 27–28 Sept 2007).

LAUE 2007 (Institut Laue-Langevin, 24–26 Jan 2007).

ILL Scientists’ Outing (Vogüé, 22–24 Oct 2006).

ILL Away Days (Pralognan, 2–4 Oct 2005).

Polymorphism in Liquid and Amorphous Matter (POLIMAT) (Grenoble, 7–9 July 2004).

Journées Soleil Région Centre 3 (JSRC-3) (Orléans, 31 Mar–1 Apr 2003).

LURE Users Meeting (Orsay, 6–7 June 2002).

11èmes Journées de la Neutronique (JDN11) (Presqu’île de Giens, 26–31 May 2002).

Colloque des 20 ans du réacteur Orphée au LLB (Saclay, 1 Mar 2001).

LURE Users Meeting (Orsay, 18–19 Jan 2001).

TRESSSES: Table Ronde sur l’ESS (European Spallation Source) – Evaluation Stratégique (St. Rémy-lès-Chevreuse, 15–17 Jan 2001).

Journées Soleil Région Centre 1 (JSRC-1) (Orléans, 18–20 Dec 2000).

Workshop on the Structure and Dynamics of the Liquid and Glassy States: X-ray and Complementary Methods (Grenoble, 22–23 May 2000).

Colloque Utilisateurs LURE 99 (Orsay, 9–10 Dec 1999).

17th general conference of the Condensed Matter Division of the European Physical Society and les 6èmes Journées de la Matière Condensée de la Société Française de Physique (CMD 17 - JMC 6) (Grenoble, 25–29 Aug 1998).

IX International Conference on Small Angle Scattering (Saclay, 27–30 Apr 1993).

HTC3 (Montréal, May 1990).

35th National Symposium of the American Vacuum Society (Atlanta, GA, 3–7 Oct 1988).

NATO Advanced Study Institute on Microelectronic Materials and Processes (Il Ciocco, Castelvechio Pascoli, Italy, 30 June – 11 July 1986).

Fifth International Conference on Phonon Scattering in Condensed Matter (University of Illinois at Urbana-Champaign, Urbana, IL, 2–6 June 1986).

“The physical properties and applications of glass” – 52nd semiannual symposium au Spring Meeting of the New York State section of the American Physical Society (Corning, NY, 19–20 Apr, 1985).