

Publications in Journals with Reviewing Committee

- PR1 M. Bellet, E. Massoni, J.L. Chenot, Numerical simulation of thin sheet forming processes by the finite element method, *Engineering Computations* 7 (1990) 21-32
- PR2 J.L. Chenot, M. Bellet, A velocity approach to elasto-plastic and elasto-viscoplastic calculation by the finite element method, *J. Eng. Industry ASME* 112 (1990) 150-154
- PR3 F. Muttin, M. Bellet, J.L. Chenot, Numerical simulation of inertial effects in Newtonian flows. Application to the filling stage of the die casting process, *J. Mat. Proc. Tech.* 31 (1992) 65-74
- PR4 F. Muttin, T. Coupez, M. Bellet, J.L. Chenot, Lagrangian finite element analysis of time-dependent viscous free surface flow using an automatic remeshing technique. Application to metal casting flow, *Int. J. Num. Meth. Engng.* 36 (1993) 2001-2015
- PR5 M. Bellet, C. Corsini, D. Assaker, P. Mercier, P. Wouters, A numerical model of the extrusion blow - molding process, *J. Reinforced Plastics and Composites* 12 (1993) 498-505
- PR6 M. Bellet, F. Decultieux, M. Ménaï, F. Bay, C. Levillant, J.L. Chenot, P. Schmidt, I.L. Svensson, Thermomechanics of the cooling stage in casting processes: 3D finite element analysis and experimental validation, *Met. Trans. B* 27 (1996) 81-100
- PR7 F. Schmidt, J.F. Agassant, M. Bellet, L. Desoutter, Viscoelastic simulation of P.E.T stretch/blow molding process, *Int. J. Non Newtonian Fluid Mech.* 64 (1996) 19-42
- PR8 A. Jinka, M. Bellet, Hot forging of a P/M connecting rod: three-dimensional computer model, *Int. J. Powder Metallurgy* 32 (1996) 255-258
- PR9 S. Bordere, C. Magny, K. Marchal, M. Bellet, C. Levillant, Prediction of the pore-closing kinetics during the consolidation stage of SiC unidirectional long fibers: titanium alloy matrix composites, *J. Materials Processing Technology* 62 (1996) 100-107
- PR10 A. Jinka, M. Bellet, L. Fourment, A new three-dimensional finite element model for the simulation of powder forging processes: Application to hot forming of P/M connecting rod, *Int. J. Num. Meth. Engng.* 40 (1997) 3955-3978
- PR11 F. Schmidt, J.F. Agassant, M. Bellet, Experimental study and numerical simulation of the injection stretch/blow molding process, *Polymer Engng and Sci.* 38 (1998) 1399-1412
- PR12 M. Bellet, M.H. Vantal, B. Monasse, Thermal effects in the numerical simulation of the thermoforming of multilayered polymer sheets, *Int. Polymer Processing* 13 (1998) 299-308

- PR13 M. Bellet, Finite element analysis of compressible viscoplasticity using a three-field formulation. Application to metal powder hot compaction, *Comput. Methods Appl. Mech. Engrg.* 175 (1999) 19-40
- PR14 F. Schmidt, A. Rodriguez-Villa, J.F. Agassant, M. Bellet, Analytical models for the inflation of a polymeric tube, *Eur. J. Mech. A/Solids* 19 (2000) 89-104
- PR15 L. Gaston, A. Kamara, M. Bellet, An Arbitrary Lagrangian-Eulerian Finite Element Approach to Non-Steady State Turbulent Fluid Flow with Application to Mould Filling in Casting, *Int. J. Num. Meth. Fluids* 34 (2000) 341-369
- PR16 M. Bellet, Implementation of surface tension with wall adhesion effects in a three-dimensional finite element model for fluid flow, *Comm. Num. Meth. Engng.* 17 (2001) 563-579
- PR17 M. Bellet, V.D. Fachinotti, ALE method for solidification modelling, *Comput. Methods Appl. Mech. and Engrg.* 193 (2004) 4355-4381
- PR18 M. Bellet, A. Heinrich, A two-dimensional finite element thermomechanical approach to a global stress-strain analysis of steel continuous casting, *ISIJ International* 44 (2004) 1686-1695
- PR19 J. Kron, M. Bellet, A. Ludwig, B. Pustal, J. Wendt, H. Fredriksson, Comparison of numerical simulation models for predicting temperature in solidification analysis with reference to air gap formation, *Int. J. Cast Metals Research* 17 (2004) 295-310
- PR20 M. Bellet, O. Jaouen, I. Poitroult, An ALE-FEM approach to the thermomechanics of solidification processes with application to the prediction of pipe shrinkage, *Int. J. Num. Meth. Heat Fluid Flow* 15 (2005) 120-142
- PR21 S. Gouttebroze, V.D. Fachinotti, M. Bellet, H. Combeau, 3D-FEM modeling of macrosegregation in solidification of binary alloys, *Int. J. Forming Processes* 8 (2005) 203-217
- PR22 V.D. Fachinotti, M. Bellet, Linear tetrahedral finite elements for thermal shock problems, *Int. J. Num. Meth. for Heat & Fluid Flow* 16 (2006) 590-601
- PR23 V.D. Fachinotti, S. Le Corre, N. Triolet, M. Bobadilla, M. Bellet, Two-phase thermo-mechanical and macrosegregation modelling of binary alloys solidification with emphasis on the secondary cooling stage of steel slab continuous casting processes, *Int. J. Num. Meth. Eng.* 67 (2006) 1341-1384
- PR24 G. Guillemot, Ch.-A. Gandin, M. Bellet, Interaction between single grain solidification and macrosegregation: application of a cellular automaton – finite element model, *J. Crystal Growth* 303 (2007) 58-68
- PR25 S. Gouttebroze, M. Bellet, H. Combeau, 3D macrosegregation simulation with anisotropic remeshing, *Comptes Rendus à l'Académie des Sciences – Mécanique* 335 (2007) 269-279
- PR26 M. Hamide, E. Massoni, M. Bellet, Adaptive mesh technique for thermal-metallurgical numerical simulation of arc welding processes, *Int. J. Num. Meth. Engng.* 73 (2008) 624-641

- PR27 O. Cerri, Y. Chastel, M. Bellet, Hot tearing in steels during solidification – Experimental characterization and thermomechanical modeling, *ASME J. Eng. Mat. Tech.* 130 (2008) 1-7
- PR28 W. Liu, C. Xie, M. Bellet, H. Combeau, 2-Dimensional FEM modeling of macrosegregation in the directional solidification with mesh adaptation, *Acta Metall. Sin.* 22 (2009) 233-240
- PR29 M. Bellet, O. Cerri, M. Bobadilla, Y. Chastel, Modeling of hot tearing during solidification of steels: assessment and improvement of macroscopic criteria through the analysis of two hot tearing tests, *Mater. Metall Trans. A* 40 (2009) 2705-2717
- PR30 M. Bellet, H. Combeau, Y. Fautrelle, D. Gobin, M. Rady, E. Arquis, O. Budenkova, B. Dussoubs, Y. Duterrail, A. Kumar, C.A Gandin, B. Goyeau, S. Mosbah, M. Zaloznik, Call for contributions to a numerical benchmark problem for 2D columnar solidification of binary alloys, *Int. J. Therm. Sci* 48 (2009) 2013-2016
- PR31 C.-A. Gandin, J. Blaizot, S. Mosbah, M. Bellet, G. Zimmermann, L. Sturz, D.J. Browne, S. McFadden, H. Jung, B. Billia, N. Mangelinck, H. Nguyen Thi, Y. Fautrelle, X. Wang, Modeling of heat and solute interactions upon grain structure solidification, *Mater. Sci. Forum* 649 (2010) 189-198
- PR32 S. Mosbah, M. Bellet, Ch.-A. Gandin, CAFE Modeling of segregation and structure in levitated droplets, *Mater. Sci. Forum* 649 (2010) 237-242
- PR33 S. Mosbah, M. Bellet, Ch.-A. Gandin, Experimental and numerical modeling of segregation in metallic alloys, *Mater. Metall Trans. A* 41 (2010) 651-669
- PR34 C. Pradille, M. Bellet, Y. Chastel, A Laser Speckle Method for Measuring Displacement Field. Application to Resistance Heating Tensile Test on Steel, *Applied Mechanics and Materials* 24 (2010) 135-140
- PR35 C. Zhang, M. Bellet, M. Bobadilla, H. Shen, B. Liu, A Coupled Electrical-Thermal-Mechanical Modeling of Gleeble Tensile Tests for Ultra-High-Strength Steel at a High Temperature, *Metall. Mater. Trans. A* 41 (2010) 2304-2317
- PR36 H.M. Aarboogh, M. Hamide, H.G. Fjaer, A. Mo, M. Bellet, Experimental validation of finite element codes for welding deformations, *J. Mat. Proc. Tech.* 210 (2010) 1681-1689
- PR37 C. Zhang, M. Bellet, M. Bobadilla, H. Shen, B. Liu, Inverse finite element modelling and identification of constitutive parameters of UHS steel at low strain and low strain rate based on Gleeble test at high temperature, accepted in *Inverse Problems in Science and Engineering* (2010), to be published.
- PR38 C. Zhang, M. Bellet, M. Bobadilla, H. Shen, B. Liu, Finite element modelling of Gleeble tensile test of micro-alloyed low carbon steel at high temperature, accepted in *Acta Metall. Sin.* (2010), to be published.
- PR39 C. Zhang, M. Bellet, H. Shen, B. Liu, M. Bobadilla, A simple constitutive model for the rheological behavior of low-carbon steel at high temperature considering the austenite grain coarsening phenomenon, submitted to *Steel Research* (August, 2010)
- PR40 P. Mondalek, L. Silva, M. Bellet, A numerical model for powder densification by SPS technique, submitted to *Advanced Engineering Materials*, Nov. 2010.

Publications in Other Journals

- P1 M. Bellet, J.L. Chenot, La thermique des métaux en mise en forme, Revue Générale de Thermique 372 (1992) 688-700.
- P2 X. Lefèvre, M. Bolla, E. Leforestier, M. Bellet, Influence de la nature du tenon radiculaire sur la répartition des contraintes au sein d'une reconstitution prothétique. Analyse par la méthode des éléments finis, Journal de Biomateriaux Dentaires 15 (2000) 117-128.
- P3 M. Bellet, C. Corsini, N. Billon, Simulation du thermoformage : la réalité virtuelle au service de la production, Infos Polymères 39 (2000) 4-5.
- P4 X. Lefèvre, M. Bolla, E. Leforestier, M. Bellet, Influence de la composition des tenons en fibre de carbone sur la répartition des contraintes au sein d'une reconstitution corono-radicaire. Analyse par la méthode des éléments finis, Clinic 22 (2001) 475-480.
- P5 M. Bellet, B. Monasse, J.F. Agassant, Simulation numérique des procédés de soufflage de polymères (Numerical simulation of polymer blowing processes), Techniques de l'Ingénieur, vol. AM, article AM3705 (2002) 1-23.
- P6 S. De La Chapelle, O. Jaouen, I. Poitault, B. Lusson, G. Brachotte, J.P. Michalet, T. Coupeze, M. Bellet, THERCAST® : un logiciel dédié à la simulation en fonderie (THERCAST® : a software dedicated to casting simulation), Fonderie Fondateur d'Aujourd'hui 230 (2003) 28-31.
- P7 N. Triolet, M. Bobadilla, M. Bellet, L. Avedian, P. Mabelly, A thermomechanical modelling of continuous casting to master steel slabs internal soundness and surface quality, La Revue de Métallurgie – Cahiers d'Informations Techniques, 102 (2005) 343-353.

Invited Conferences & Keynotes

- K1 M. Bellet, Computation of stresses in solidification problems, COST 504 annual meeting, Gent, Belgium, 5-7 April 1992.
- K2 M. Bellet, M. Ménaï, F. Bay, J.L. Chenot, A multi-domain preconditioned conjugate gradient algorithm for 3D finite element thermal computations, CNI/MAT'92, International Workshop on Parallelism and Distributed Computing in Materials Science: Trends and Challenges, Nancy, France, 9-11 December 1992
- K3 M. Ménaï, M. Bellet, Thermomechanical coupling during solidification: a 3D finite element approach, Proc. 7th Int. Conf. on Modelling of Casting, Welding and Advanced Solidification Processes, London (UK), September 10-15, 1995, M. Cross & J. Campbell (eds.), The Minerals Metals and Materials Society, pp.723-730 (1995)
- K4 M. Bellet, L. Gaston, M. Ménaï, Modélisation numérique des procédés de fonderie (Numerical modelling of casting processes), Journées d'Automne, Société Française de Métallurgie et de Matériaux (SF2M), Paris, October 17-19, 1995.

- K5 M. Bellet, J.F. Agassant, B. Monasse, M.H. Vantal, A. Rodriguez-Villa, Simulation par éléments finis des procédés de soufflage des polymères (Finite element simulation of polymer blowing processes), Proc. Conf. Eléments Finis Polymères, Nancy, November 3-4, 1997, C. G'Sell & J.C. Grandidier (eds.), Apollor, Nancy, article 7, pp. 1-34 (2001)
- K6 M. Bellet, Modélisation des procédés de soufflage de polymères (Modelling of Polymer Blowing Processes), Forum XAO-Plasturgie, April 1-2, 1999, Saint-Dié-des-Vosges, France.
- K7 M. Bellet, O. Jaouen, Modelling of the mechanical phenomena in casting, International Symposium on « Modelling of microstructures and solidification process », Journées d'Automne de la Société Française de Métallurgie et de Matériaux, Paris, November 3, 1999.
- K8 M. Bellet, O. Jaouen, Finite element approach of thermomechanics of solidification processes, Proc. Int. Conf. On Cutting Edge of Computer Simulation of Solidification and Casting, Osaka (Japan), November 14-16, 1999, I. Ohnaka and H. Yasuda (eds.), The Iron and Steel Institute of Japan (ISIJ), pp. 173-190, 1999.
- K9 M. Bellet, L. Fourment, C. Corsini, L. Paris, J.-J. Caussat, P.J. Spence, Superplastic forming: from numerical modelling to automated process optimization, Proc. EURO-SPF 01, 1st European Conf. On Superplastic Forming, Villars-de-Lans, France, May 17-19, 2001, J.-J. Blandin (ed.), Presses Universitaires de Grenoble, pp. 11-17 (2003)
- K10 V.D. Fachinotti, M. Bellet, Three-Dimensional Finite Element Modelling of Thermomechanics and Macrosegregation in Binary Alloys Solidification, Proc. ESAFORM 6th Int. Conf. On Material Forming, Salerno (Italy), April 28-30, 2003, University of Salerno, pp. 511-514, 2003.
- K11 M. Bellet, E. Saez, O. Jaouen, T. Coupez, A 3D-FEM solver for non steady state Navier-Stokes equations with free surface. Application to mold filling simulation in casting processes, Symposium on Multiphase Phenomena and CFD Modelling and Simulation in Materials Processes, TMS Annual Meeting, Charlotte (NC, USA) March 2004, Proc. ed. by L. Nastac and B.Q. Li, The Minerals, Metals & Materials Society, pp. 209-218, 2004.
- K12 M. Bellet, Modelling of solidification processes, Application to continuous casting and welding, ENIEF2006, 15th Annual Argentine Congress on Numerical Methods and Applications, Santa Fe, Argentina, 7-10 November 2006.
- K13 M. Bellet, Simulation numérique des procédés de solidification, Journée SF2M section Nord, Colloque sur la Simulation des Procédés Industriels, Saint-Omer, 22 novembre 2007.
- K14 M. Bellet, O. Cerri, Y. Chastel, Analysis of two hot tearing tests in solidification conditions and assessment of macroscopic criteria, Proc. Journées Annuelles SF2M 2008, Structure Formation in Solidification Processing, ENSAM Paris, 4-6 June 2008.
- K15 M. Bellet, M. Hamide, C. Pequet, P. Lasne, New numerical technologies for the simulation of arc welding processes, Proc. MCWASP XII, 12th Int. Conf. on Modeling of Casting, Welding and Advanced Solidification Processes, Vancouver & Alaska, June 7 - 13, 2009, S. Cockcroft, D. Maaijer (eds.), The Minerals, Metals & Materials Society, Warrendale, Pennsylvania, USA (2009) 563-570.

- K16 P. Mondalek, L. Silva, M. Bellet, Modélisation numérique électrique-thermique-mécanique du procédé de frittage flash, *Matériaux 2010*, Invited Conf. in Colloquium "Procédés d'Elaboration", October 18-22, 2010, Nantes, DVD-Rom published by Fédération Française des Matériaux, ISBN 978-2-9528-1403-4 (2010) 10 pages.
- K17 H. Combeau, M. Bellet, Y. Fautrelle, D. Gobin, E. Arquis, O. Budenkova, B. Dussoubs, Y. Duterrail, A. Kumar, S. Mosbah, M. Rady, C.A. Gandin, B. Goyeau, M. Založnik, Formation de macroségrégations pendant la solidification d'un alliage Sn-Pb : Synthèse des premiers résultats d'un benchmark, *Matériaux 2010*, Invited Conf. in Colloquium "Procédés d'Elaboration", October 18-22, 2010, Nantes, DVD-Rom published by Fédération Française des Matériaux, ISBN 978-2-9528-1403-4 (2010) 9 pages.

Books (Direction)

- B1 M. Rappaz, M. Bellet, M. Deville, Modélisation numérique en science et génie des matériaux, *Traité des Matériaux*, tome 10, Presses Polytechniques et Universitaires Romandes, Lausanne, 1998.
- B2 M. Rappaz, M. Bellet, M. Deville, Numerical Modeling in Materials Science and Engineering, Springer Series in Computational Mathematics, Springer-Verlag, Berlin, Heidelberg, New York, 2003.
- B3 C.A. Gandin, M. Bellet, Modelling of Casting, Welding, and Advanced Solidification Processes – XI, Proceedings of the 11th Int. Conf. on Modelling of Casting, Welding, and Advanced Solidification Processes, Opio, France, May 28 – June 2, 2006, The Minerals, Metals & Materials Society, Warrendale, USA, 2006.
- B4 M. Rappaz, M. Bellet, M. Deville, Numerical Modeling in Materials Science and Engineering, Springer Series in Computational Mathematics, Soft Cover Edition, Springer-Verlag, Berlin, Heidelberg, New York, 2010.

Books and Cdroms (Collaboration)

- BC1 M. Bellet, E. Massoni, J.L. Chenot, Calcul des membranes élasto-plastiques et élasto-viscoplastiques. Application à l'emboutissage et au formage superplastique, In *Physique et Mécanique de la Mise en Forme des Métaux*, P. Franciosi & F. Moussy (eds.), Presses du CNRS & IRSID, sixième partie, chap.II, p.501 (1990)
- BC2 E. Massoni, J.L. Chenot, M. Bellet, A 3D finite element approach for predicting the deformation of an anisotropic elasto-plastic membrane, In *Non Linear Computational Mechanics - State of the Art*, P. Wriggers & W. Wagner (eds.), Springer Verlag, chap.V.6, p.473 (1991)
- BC3 J.L. Chenot, M. Bellet, The viscoplastic approach for the finite element modelling of metal forming processes, In *Numerical Modelling of Material Deformation Processes. Research, Developments and Applications*, P. Hartley, I. Pillinger & C. Sturgess (eds.), Springer Verlag, London, pp.179-224 (1992)
- BC4 M. Bellet, J.L. Chenot, A lagrangian approach to fluid flow in metal casting processes, In *Computational Methods for Moving Boundary Problems in Heat and Fluid Flow*, L.C. Wrobel & C.A. Brebbia (eds.), Computational Mechanics Publications & Elsevier Applied Science, Chapter 13, pp.287-316 (1993)

- BC5 M. Bellet, La modélisation numérique des procédés de fonderie, In La Mise en Forme des Matériaux, Vingt Ans de Recherche au Cemef. Presses de l'Ecole des Mines de Paris, Collection Sciences de la Matière, Paris, pp. 43-53 (1996)
- BC6 L. Fourment, M. Bellet, Hot powder forging, In Modelling in Welding, Hot Powder Forming and Casting, L. Karlsson (ed.), ASM International, chap. 7, pp. 131-158 (1997)
- BC7 F. Decultieux, M. Ménaï, F. Bay, C. Levailant, P. Schmidt, I.L. Svensson, M. Bellet, Thermomechanical modeling in casting with experimental validation, In Modelling in Welding, Hot Powder Forming and Casting, L. Karlsson (ed.), ASM International, chap. 10, pp. 291-313 (1997)
- BC8 M. Bellet, J.F. Agassant, B. Monasse, M.H. Vantal, A. Rodriguez-Villa, Simulation par éléments finis des procédés de soufflage des polymères, In Eléments Finis Polymères, C. G'Sell (ed.) (1998)
- BC9 M. Bellet, L. Fourment, E. Massoni, J.L. Chenot, Modélisation numérique du contact et du frottement en mise en forme des métaux, In Surfaces tribologie et formage des matériaux. Presses de l'Ecole des Mines de Paris, Collection Sciences de la Matière, Paris, pp. 435-460 (2001)
- BC10 D. Favier, L. Orgéas, C. Geindreau, F. Bay, Y. Chastel, M. Bellet, Modélisation des phénomènes de ségrégation entre phases liquide et solide (Modelling of segregation phenomena between liquid and solid phases), In Mise en forme à l'état semi-solide, M. Suéry (ed.), Hermès, Paris (2002)
- BC11 M. Bellet, B.G. Thomas, Solidification macroprocesses, in Materials Processing Handbook, J.R. Groza & J.F. Shackelford (eds.), Chapter 27, CRC Press, Taylor and Francis (2007)
- BC12 B.G. Thomas, M. Bellet, Modeling of stress, distortions and hot tearing, ASM Handbook, Volume 15, Casting, Division 4: Modeling and Analysis of Casting Processes, American Society of Metals (2008) 449-461

Communications in Conferences, with Proceedings

- CP1 E. Massoni, M. Bellet, M. Abouaf, J.L. Chenot, Large displacements numerical calculation of 3-dimensional elasto-plastic and elasto-viscoplastic membrane by the finite element method, Proc. Int. Conf. on Numerical Methods for Non-Linear Problems, Dubrovnik, Yugoslavia, September 1986, C. Taylor, D.R.J. Owen, E. Hinton & F.B. Damjanic (eds.), Pineridge Press, vol.3, p.480 (1986)
- CP2 M. Bellet, J.L. Chenot, Numerical modelling of 3-dimensional superplastic forming of titanium sheet, Int. Conf. on Titanium Products and Applications, San Francisco (CA), USA, October 1986, The Titanium Development Association, Dayton (OH), vol.2, p.1175 (1986)
- CP3 M. Bellet, E. Massoni, J.L. Chenot, A viscoplastic membrane formulation for the 3-dimensional analysis of thin sheet metal forming, Proc. COMPLAS I, 1st Int. Conf. on Computational Plasticity, Barcelona, Spain, April 1987, D.R.J. Owen, E. Hinton, E. Onate (eds.), Pineridge Press, vol.2, p.917 (1987)
- CP4 E. Massoni, M. Bellet, J.L. Chenot, J.M. Detraux, C. De Baynast, A finite element modelling for deep drawing of thin sheet in automotive industry, Proc. 2nd Int.

- Conf. on Technology of Plasticity (ICTP), Stuttgart, Germany, August 1987, K. Lange (ed.), Pineridge Press, p.917 (1987)
- CP5 M. Bellet, J.L. Chenot, Numerical simulation of superplastic forming, Proc. 6th World Conf. on Titanium, Cannes, France, June 1988, P. Lacombe, R. Tricot & G. Béranger (eds.), Société Française de Métallurgie, Les Editions de Physique, vol.III, p.1203 (1988)
- CP6 E. Massoni, M. Bellet, J.L. Chenot, Thin sheet forming numerical analysis with a membrane approach, Proc. Euromech Colloquium n° 233 "Modelling of Metal Forming Processes", Sophia-Antipolis, France, August 1988, J.L. Chenot & E. Onate (eds.), Kluwer, p.187 (1988)
- CP7 M. El Hadj, M.A. Le Dain, Y. Demay, M. Bellet, J.L.Chenot, A multi-grid finite element method for 3D linear elasticity with application, Proc. FEMCAD 88, Paris, France, October 1988, A. Niku-Lari (ed.), SAS Series (1988)
- CP8 F. Lebon, M.A. Le Dain, M. Bellet, J.L. Chenot, M. Raous, Introduction aux méthodes multi-grilles en mécanique des structures linéaires et non-linéaires, Proc. GRECO Calcul des Structures et Intelligence Artificielle, Giens, France, May 1989, J.M. Fouet, P. Ladevèze & R. Ohayon (eds.), Pluralis, vol.3, p.215 (1989)
- CP9 M. Bellet, J.L. Chenot, Numerical modelling of thin sheet superplastic forming processes, Proc. NUMIFORM'89, 3rd Int. Conf. on Numerical Methods in Industrial Forming Processes, Fort Collins (CO), USA, June 1989, E.G. Thompson, R.D. Wood, O.C. Zienkiewicz & A. Samuelsson (eds.), Balkema, pp. 401-406 (1989)
- CP10 N. Soyris, F. Bay, M. Bellet, J.L. Chenot, Heat transfer analysis with a three dimensional finite element code. Application to the casting process, Proc. 6th Int. Conf. on Numerical Methods in Thermal Problems, Swansea, Great Britain, July 1989, R.W. Lewis & K. Morgan (eds.), Pineridge Press, p.280 (1989)
- CP11 M.A. Le Dain, M. Bellet, J.L. Chenot, A multigrid finite element method for linear elasticity with applications in 2D, Proc. NUMETA'90, 3rd Int. Conf. on Numerical Methods in Engineering - Theory and Applications, Swansea, Great Britain, January 1990, G.N. Pande & J. Middleton (eds.), Elsevier, vol.1, p.527 (1990)
- CP12 J.J. Brioist, F. Bay, M. Bellet, J.L. Chenot, Three dimensional finite element thermal computation and coupled stress analysis for the casting process, Proc. Heat Transfer'90, Int. Conf. on Advanced Computational Methods in Heat Transfer, Portsmouth, Great Britain, July 1990, L.C. Wrobel, C.A. Brebbia & A.J. Nowak (eds.), Computational Mechanics Publications, Springer Verlag, p.91 (1990)
- CP13 F. Muttin, M. Bellet, J.L. Chenot, Numerical simulation of inertial effects in newtonian flows. Application to the filling stage of the die casting process, Proc. Int. Conf.on Developments in Forming Technology, Lisboa, Portugal, September 1990, S.K. Ghosh (ed.), Staffordshire Polytechnic, p.1.47 (1990)
- CP14 M.A. Le Dain, L. Fourment, M. Bellet, J.L.Chenot, Development of a multigrid method and an a posteriori estimated error for 2D elasticity problems, Proc. European Conf. on New Advances in Computational Structural Mechanics, Giens, 2-5 April 1991, P. Ladevèze & O.C. Zienkiewicz (eds.), p.71 (1991)
- CP15 F. Muttin, T. Coupez, M. Bellet, J.L. Chenot, Newtonian fluid computation in Lagrangian variables with a remeshing technique. Application to the filling stage of the die casting process, Proc. 1st Int. Conf. on Computational Modelling of Free

and Moving Boundary Problems, Southampton, Great Britain, 2-4 July 1991, L.C. Wrobel & C.A. Brebbia (eds.), Computational Mechanics Publications, vol.2, p.207 (1991)

- CP16 M. Bellet, N. Soyris, J.L. Chenot, 3D finite element analysis of thermomechanical processes. Application to forging and casting, Proc. IUTAM Symposium : Finite Inelastic Deformations - Theory and Applications, Hannover, Germany, August 1991, D. Besdo & E. Stein (eds.), Springer Verlag, pp. 389-398 (1992)
- CP17 M. Bellet, C. Corsini, D. Assaker, P. Mercier, P. Wouters, A numerical model of the extrusion blow molding process, Proc. ANTEC'92, Detroit (MI), USA, 3-7 May 1992, The Society of Plastics Engineers, vol.1, p.177 (1992)
- CP18 C. Corsini, J. Pora, M. Bellet, Superplastic forming of industrial parts : a numerical simulation, Proc. 7th World Conf. on Titanium, San Diego (CA), USA, June 28-July 2, 1992, F.H. Froes & I.L. Caplan (eds.), The Minerals Metals and Materials Society, Warrendale, Pa, USA, p. 1403.
- CP19 F. Muttin, Y.H. Kim, T. Coupez, M. Bellet, J.L. Chenot, Lagrangian finite element analysis of low viscous and inviscid free surface fluid flow. Application to metal casting flow using a remeshing technique., Proc. 1st European Computational Fluid Dynamics Conference, Brussels, Belgium, September 7-11, 1992, C.H. Hirsch, J. Périaux & W. Kordulla (eds.), Elsevier, vol.1, p.429 (1992)
- CP20 M. Bellet, F. Bay, J.J. Briost, J.L. Chenot, Modelling of the thermomechanical coupling in the cooling stage of the casting process, Proc. NUMIFORM'92 Int. Conf. on Numerical Modelling of Forming Processes, Sophia Antipolis, France, 14-18 September 1992, J.L. Chenot, R.D. Wood & O.C. Zienkiewicz (eds.), Balkema, Rotterdam, p.771 (1992)
- CP21 F. Schmidt, J.F. Agassant, M. Bellet, Numerical simulation of polyester stretch blow molding, Proc. NUMIFORM'92 Int. Conf. on Numerical Modelling of Forming Processes, Sophia Antipolis, 14-18 September 1992, J.L. Chenot, R.D. Wood & O.C. Zienkiewicz (eds.), Balkema, Rotterdam, p.383 (1992)
- CP22 Y. Hadjee, G. Werbrouck, F. Bay, M. Ménaï, M. Bellet, Numerical simulation of solidification stage in casting process, Proc. 2nd Int. Symposium on Contribution of Scientific Computational Techniques to Car Design, Paris, February 24-25, 1993.
- CP23 M. Bellet, M. Ménaï, F. Bay, P. Schmidt, I.L. Svensson, Finite element modelling of the cooling phase in casting processes, Proc. 6th Int. Conf. on Modelling of Casting, Welding and Advanced Solidification Processes, Palm Coast, Florida, USA, March 21-26, 1993, T.S. Pivonka, V. Voller & L. Katgerman (eds.), The Minerals Metals and Materials Society, pp.561-568 (1993)
- CP24 F.M. Schmidt, J.F. Agassant, M. Bellet, L. Desoutter, Viscoelastic simulation of PET stretch-blow molding, Proc. 9th Annual Meeting of the Polymer Processing Society, 5-8 April, 1993, Manchester, UK, p.335 (1993)
- CP25 M. Ménaï, F. Bay, M. Bellet, Simulation numérique du refroidissement des pièces de fonderie, Proc. Colloque National en Calcul des Structures, Giens, 11-14 May, 1993, M. Bernadou et al. (eds.), Hermès, vol.2, pp.982-991 (1993)
- CP26 F.M. Schmidt, J.F. Agassant, M. Bellet, L. Desoutter, Thermomechanical simulation of PET stretch/blow molding, Proc. PPS'94, 10th Annual Meeting of The

- Polymer Processing Society, April 1994, Akron, Ohio, USA, The Polymer Processing Society, p. 313 (1994)
- CP27 O. Fresse, M. Bellet, B. Monasse, Finite element simulation of blown films, Proc. PPS'94, 10th Annual Meeting of The Polymer Processing Society, April 1994, Akron, Ohio, USA, The Polymer Processing Society, p. 327 (1994)
- CP28 M.H. Vantal, M. Bellet, B. Monasse, J.C. Jammet, R. Andro, Non-isothermal 3D simulation of thermoforming of multilayer sheets, Proc. PPS'94, 10th Annual Meeting of The Polymer Processing Society, April 1994, Akron, Ohio, USA, The Polymer Processing Society, p. 317 (1994)
- CP29 G. Cocozz, M. Bellet, R. Lécot, L. Ackermann, H.A. Haggblad, Cold compaction of powder : experiments and simulation, Proc. PM'94, 1994 Powder Metallurgy World Congress, Paris, June 6-9, 1994, Société Française de Métallurgie et de Matériaux and European Powder Metallurgy Association (eds.), Les Editions de Physique, vol.1, pp.709-712 (1994)
- CP30 A. Jinka, L. Fourment, M. Bellet, A three-dimensional finite element simulation of hot powder forging of an automotive part, Proc. PM'94, 1994 Powder Metallurgy World Congress, Paris, June 6-9, 1994, Société Française de Métallurgie et de Matériaux and European Powder Metallurgy Association (eds.), Les Editions de Physique, vol.1, pp.793-796 (1994)
- CP31 M. Bellet, F. Decultieux, M. Ménai, C. Levaillant, P. Schmidt, I.L. Svensson, Thermomechanical finite element analysis of a shape casting operation with experimental validation, Proc. COST 504 Conference. Advanced Casting and Solidification Technology 1994, Espoo, Finland, 12-13 September 1994, H. Kleemola & B. Pukl (eds.), The European Commission - Telecommunications, Information Industries and Innovation, Brussels, pp105-117 (1994)
- CP32 J.-L. Chenot, M. Bellet, The ALE method for the numerical simulation of material forming processes, Proc. NUMIFORM'95, 5th Int. Conf. on Numerical Methods in Industrial Forming Processes, Cornell University, Ithaca (NY, USA), June 18-21 1995, S.-F. Shen & P.R. Dawson (eds.), Balkema, Rotterdam, pp.39-48 (1995)
- CP33 M.-H. Vantal, B. Monasse, M. Bellet, Numerical simulation of the thermoforming of multi-layer polymer sheets, Proc. NUMIFORM'95, 5th Int. Conf. on Numerical Methods in Industrial Forming Processes, Cornell University, Ithaca (NY, USA), June 18-21 1995, S.-F. Shen & P.R. Dawson (eds.), Balkema, Rotterdam, pp.1089-1095 (1995)
- CP34 A. Rodriguez-Villa, J.-F. Agassant, M. Bellet, Finite element simulation of the extrusion blow-molding process, Proc. NUMIFORM'95, 5th Int. Conf. on Numerical Methods in Industrial Forming Processes, Cornell University, Ithaca (NY, USA), June 18-21 1995, S.-F. Shen & P.R. Dawson (eds.), Balkema, Rotterdam, pp.1053-1058 (1995)
- CP35 A. Jinka, L. Fourment, M. Bellet, Numerical simulation of hot powder forging of connecting rod, Proc. NUMIFORM'95, 5th Int. Conf. on Numerical Methods in Industrial Forming Processes, Cornell University, Ithaca (NY, USA), June 18-21 1995, S.-F. Shen & P.R. Dawson (eds.), Balkema, Rotterdam, pp.833-839 (1995)
- CP36 L. Gaston, B. Glut, M. Bellet, J.L. Chenot, An arbitrary lagrangian eulerian finite element approach to non-steady state fluid flows. Application to mould filling, Proc. 7th Int. Conf. on Modelling of Casting, Welding and Advanced Solidification

Processes, London (UK), September 10-15, 1995, M. Cross & J. Campbell (eds.), The Minerals Metals and Materials Society, pp.163-170 (1995)

- CP37 A. Rodriguez-Villa, M. Bellet, J.F. Agassant, Rheological characterization of molten polyethylene with respect to the blow molding process, Proc. 12th Int. Congress on Rheology, Québec city, August 18-23, 1996, A. Ait-Kaidi et al.(eds.), pp.695-696 (1996)
- CP38 A. Rodriguez-Villa, M. Bellet, J.F. Agassant, Numerical simulation of the blow molding process: viscoelastic behavior and remeshing techniques, Proc. PPS-12, 12th Annual Meeting of The Polymer Processing Society, May 27-31, 1996, Sorrento, Italy, L. Nicolais & J.M. Kenny (eds.), The Polymer Processing Society, pp.423-424 (1996)
- CP39 M. Bellet, L. Fourment, A finite element three-field formulation to model the hot forging of metal powders, Proc. 5th ICTP, Int. Conf. on Technology of Plasticity, October 7-10, 1996, Columbus, Ohio, USA, T. Altan (ed.), pp. 445-448 (1996)
- CP40 L. Gaston, M. Bellet, J.L. Chenot, An arbitrary Lagrangian Eulerian finite element approach to non-steady state fluid flows. Application to mould filling, Proc. ECCOMAS'96, 2nd ECCOMAS (European Community on Computational Methods in Applied Sciences) Computational Fluid Dynamics Conf., Paris, September 9-13, 1996, J.A. Désidéri, P. Le Tallec, E. Onate, J. Périaux & E. Stein (eds.), John Wiley & Sons, Chichester, pp. 973-979 (1996)
- CP41 M. Bellet, L. Fourment, A three-field formulation for the finite element analysis of compressible viscoplasticity. Application to metal powder hot compaction, Proc. COMPLAS 5, 5th Int. Conf. on Computational Plasticity, Barcelona, March 17-20, E. Onate et al. (eds), pp.1270-1275 (1997)
- CP42 F. Decultieux, M. Bellet, A. Le Floc'h, D. Delagnes, C. Levailant, Development of stress during the solidification of an aluminium alloy : experimental and numerical assessment of influence of elasticity parameters during solidification, Proc. SP'97, 4th International Conference on Solidification Processing, Sheffield, UK, July 7-10, 1997, J. Beech & H. Jones (eds.), The University of Sheffield, pp. 195-197 (1997)
- CP43 O. Jaouen, M. Bellet, Un algorithme de couplage mécanique entre corps déformables : application à l'interaction pièce-moule en condition de solidification dans le procédé de fonderie, Proc. 3ème Colloque National en Calcul des Structures, Giens, May 20-23, 1997, B. Peseux et al. (eds.), Presses Académiques de l'Ouest, Nantes, pp. 723-728 (1997)
- CP44 M. Bellet, Modélisation tridimensionnelle par éléments finis de la compaction à chaud des poudres métalliques par une formulation à trois champs (Three dimensional finite element modelling of hot compaction of metal powder by a three field formulation), Proc. 13ème Congrès Français de Mécanique, Poitiers, Futuroscope, September 1-5, 1997, Association Universitaire de Mécanique, vol.4, pp. 55-58 (1997)
- CP45 F.M. Schmidt, J.F. Agassant, M. Bellet, Experimental study of the injection/blow molding process, Proc. ANTEC'97, Toronto, Canada, April 27 - May 2 (1997)
- CP46 M. Bellet, J.F. Agassant, B. Monasse, M.H. Vantal, A. Rodriguez-Villa, Simulation par éléments finis des procédés de soufflage des polymères (Finite element simulation of polymer blowing processes), Proc. Conf. Eléments Finis Polymères, Nancy, November 3-4, 1997, C. G'Sell & J.C. Granddier (eds.), Apollon, Nancy, article 7, pp. 1-34 (2001)

- CP47 O. Jaouen, M. Bellet, A numerical mechanical coupling algorithm for deformable bodies: application to part/mold interaction in casting process, Proc. 8th Int. Conf. on Modelling of Casting, Welding and Advanced Solidification Processes, San Diego (CA, USA), June 7-12, 1998, B.G. Thomas and C. Beckermann. (eds.), The Minerals Metals and Materials Society, pp. 739-746 (1998)
- CP48 M. Bellet, A. Rodriguez-Villa, J.F. Agassant, Finite element and automatic remeshing methods for the simulation of complex blow molded polymer components, in: Simulation of Materials Processing: Theory, Methods and Applications Proc. NUMIFORM'98, 6th Int. Conf. on Numerical Methods in Industrial Forming Processes, Enschede, The Netherlands, 22-25 June 1998, J. Huétink, F.P.T. Baaijens (eds.), Balkema, Rotterdam, pp. 489-494 (1998)
- CP49 C. Bahloul, L. Gaston, M. Bellet, Finite element analysis of turbulent flow during the mould filling in casting, in: Simulation of Materials Processing: Theory, Methods and Applications Proc. NUMIFORM'98, 6th Int. Conf. on Numerical Methods in Industrial Forming Processes, Enschede, The Netherlands, 22-25 June 1998, J. Huétink, F.P.T. Baaijens (eds.), Balkema, Rotterdam, pp. 641-646 (1998)
- CP50 O. Jaouen, M. Bellet, Numerical modelling of part/mold interaction in casting process, in: Simulation of Materials Processing: Theory, Methods and Applications Proc. NUMIFORM'98, 6th Int. Conf. on Numerical Methods in Industrial Forming Processes, Enschede, The Netherlands, 22-25 June 1998, J. Huétink, F.P.T. Baaijens (eds.), Balkema, Rotterdam, pp. 647-653 (1998)
- CP51 A. Rodriguez-Villa, J.F. Agassant, M. Bellet, Numerical and experimental study of the blow molding process, Proc. PPS'14, 14th Annual Meeting of the Polymer Processing Society, Yokohama, Japan, June 8-12, 1998, The Polymer Processing Society, pp. 691-692 (1998)
- CP52 J.L. Chenot, M. Bellet, Finite element modelling of metal forming processes: fluid and solid approaches, ACAM Conference, Australia (1999)
- CP53 M. Bellet, J.F. Agassant, B. Monasse, A. Rodriguez-Villa, D. Lebouvier, O. Fontaine de Ghelin, P. Wouters, Finite element simulation of thermoforming and extrusion blow-molding processes, Proc. Numisheet'99, 4th Int. Conf. on Numerical Simulation of 3D Sheet Forming Processes, Besançon, France, September 13-17, 1999, J.C. Gélín & P. Picart (eds.), University of Franche-Comté and ENSMM Besançon, pp. 555-560 (1999)
- CP54 M. Bellet, O. Jaouen, Modelling of the mechanical phenomena in casting, International Symposium on « Modelling of microstructures and solidification process », Journées d'Automne de la Société Française de Métallurgie et de Matériaux, Paris, 3 novembre 1999, Revue de Métallurgie, Cahiers d'Informations Techniques, numéro hors série, p. 33, 1999.
- CP55 M. Bellet, O. Jaouen, Finite element approach of thermomechanics of solidification processes, Proc. Int. Conf. On Cutting Edge of Computer Simulation of Solidification and Casting, Osaka (Japan), November 14-16, 1999, I. Ohnaka and H. Yasuda (eds.), The Iron and Steel Institute of Japan (ISIJ), pp. 173-190 (1999)
- CP56 M. Bellet, C. Aliaga, O. Jaouen, Finite elements for a thermomechanical analysis of solidification processes, Proc. MCWASP IX, 9th Int. Conf. on Modeling of Casting, Welding and Advanced Solidification Processes, Aachen (Germany),

August 20-25, 2000, P.R. Sahm, P.N. Hansen and J.G. Conley (eds.), Shaker Verlag, Aachen, pp. 10-17 (2000)

- CP57 N. Billon, M. Bellet, J.M. Haudin, J.F. Agassant, Blow moulding and thermoforming of polymers, Proc. 4th Int. ESAFORM Conf. on Material Forming, Liège (Belgium), April 23-25, 2001, Université de Liège, vol. 1, pp. 341-344 (2001)
- CP58 M. Bellet, S. Moto Mpong, Determination of the constitutive equation parameters of a thixotropic Al alloy and FEM modelling of the thixoforming process, in Simulation of Material Processing: Theory, Methods and Applications, Proc. NUMIFORM'2001, 7th Int. Conf. on Numerical Methods in Industrial Forming Processes, Toyohashi, Japan, 18-20 June 2001, K. Mori (ed.), Balkema, Lisse, pp. 1087-1092 (2001)
- CP59 A. Heinrich, F. Costes, M. Bellet, Two-dimensional thermomechanical simulation of the secondary cooling zone of steel continuous casting, Proc. 5th ESAFORM Conf. on Material Forming, Krakow, April 14-17, 2002, M. Pietrzyk, Z. Mitura, J. Kaczmar (eds.), Akapit, Krakow, Poland, 355-358 (2002)
- CP60 E. Massoni, R. Forestier, T Dal Negro, Y. Chastel, M. Bellet, Inverse analysis for the identification of thermal and mechanical parameters of materials, Proc. 5th ESAFORM Conf. on Material Forming, Krakow, April 14-17, 2002, M. Pietrzyk, Z. Mitura, J. Kaczmar (eds.), Akapit, Krakow, Poland, 159-162 (2002)
- CP61 E. Massoni, S. Berger, S. Boude, M. Bellet, Inverse model for automatic identification of material parameters in superplastic sheet forming, Proc. 5th International Conference and Workshop on Numerical Simulation of 3D sheet forming Processes, NUMISHEET 2002, Jeju Island, Korea, Vol. 1, 219 (2002)
- CP62 M. Bellet, H. Abouchadi, M. Lambertin, O. Jaouen, I. Poitroult, Simulation de la formation de la retassure primaire et des lames d'air dans les pièces de fonderie par une analyse thermomécanique 3D éléments finis, Colloque Matériaux 2002, Tours, October 21-25, 2002, Proc: CDROM published by the Technological University of Belfort-Montbéliard, 4 pages (2002)
- CP63 F. Costes, A. Heinrich, M. Bellet, Modélisation par éléments finis 3D de la coulée continue d'acier, Colloque Matériaux 2002, Tours, October 21-25, 2002, Proc: CDROM published by the Technological University of Belfort-Montbéliard, 4 pages (2002)
- CP64 M. Bellet, L. Fourment, C. Corsini, L. Paris, J.-J. Caussat, P.J. Spence, Superplastic forming: from numerical modelling to automated process optimization, Proc. EURO-SPF 01, 1st European Conf. On Superplastic Forming, Villars-de-Lans, France, May 17-19, 2001, J.-J. Blandin (ed.), Presses Universitaires de Grenoble, pp. 11-17 (2003)
- CP65 V.D. Fachinotti, M. Bellet, Three-Dimensional Finite Element Modelling of Thermomechanics and Macrosegregation in Binary Alloys Solidification, Proc. ESAFORM 6th Int. Conf. On Material Forming, Salerno (Italy), April 28-30, 2003, University of Salerno, pp. 511-514, 2003.
- CP66 S. Le Corre, M. Bellet, F. Bay, Y. Chastel, Two-phase approach for solidification problems: modelling the mushy zone deformation, Proc. MCWASP X, 10th Int. Conf. on Modeling of Casting, Welding and Advanced Solidification Processes, Destin (Florida, USA), May 25-30, 2003, D.M. Stefanescu, J.A. Warren, M.R. Jolly & M.J.M. Krane (eds.), The Minerals, Metals & Materials Society, Warrendale, Pennsylvania, USA, pp. 345-352, 2003.

- CP67 M. Bellet, V.D. Fachinotti, O. Jaouen, S. De La Chapelle, I. Poitroult, Application of the arbitrary Eulerian Lagrangian finite element formulation to the thermomechanical simulation of casting processes, with focus on pipe shrinkage prediction, Proc. MCWASP X, 10th Int. Conf. on Modeling of Casting, Welding and Advanced Solidification Processes, Destin (Florida, USA), May 25-30, 2003, D.M. Stefanescu, J.A. Warren, M.R. Jolly & M.J.M. Krane (eds.), The Minerals, Metals & Materials Society, Warrendale, Pennsylvania, USA, pp. 361-368, 2003.
- CP68 F. Costes, A. Heinrich, M. Bellet, 3D thermomechanical simulation of the secondary cooling zone of steel continuous casting, Proc. MCWASP X, 10th Int. Conf. on Modeling of Casting, Welding and Advanced Solidification Processes, Destin (Florida, USA), May 25-30, 2003, D.M. Stefanescu, J.A. Warren, M.R. Jolly & M.J.M. Krane (eds.), The Minerals, Metals & Materials Society, Warrendale, Pennsylvania, USA, pp. 393-400, 2003.
- CP69 V.D. Fachinotti, M. Bellet, Modélisation tridimensionnelle par éléments finis de la macroségrégation au cours de la solidification d'un alliage binaire (Three-dimensional finite element modeling of macrosegregation during the solidification of a binary alloy), Congrès Français de Mécanique, Nice, September 1-5, CDROM, University of Nice - Sophia Antipolis, Ecole des Mines de Paris, Association Française de Mécanique, 6 pages, 2003.
- CP70 F. Costes, A. Heinrich, M. Bellet, Approche thermomécanique 3D de la coulée continue d'acier (3D thermomechanical approach to continuous casting of steel), Congrès Français de Mécanique, Nice, September 1-5, 2003, CDROM, University of Nice - Sophia Antipolis, Ecole des Mines de Paris, Association Française de Mécanique, 6 pages, 2003.
- CP71 M. Bellet, E. Saez, O. Jaouen, T. Coupez, A 3D-FEM solver for non steady state Navier-Stokes equations with free surface. Application to mold filling simulation in casting processes, Symposium on Multiphase Phenomena and CFD Modelling and Simulation in Materials Processes, TMS Annual Meeting, Charlotte (NC, USA) March 2004, Proc. ed. by L. Nastac and B.Q. Li, The Minerals, Metals & Materials Society, pp. 209-218, 2004.
- CP72 M. Bellet, V.D. Fachinotti, S. Gouttebroze, W. Liu, H. Combeau, A 3D-FEM model solving thermomechanics and macrosegregation in binary alloys solidification, Proc. Symposium on Solidification Processes and Microstructures, in Honor of Wilfried Kurz, TMS Annual Meeting, Charlotte (NC, USA) March 2004, M. Rappaz, C. Beckermann & R. Trivedi (eds.), The Minerals, Metals & Materials Society, pp. 41-46, 2004.
- CP73 S. Gouttebroze, V.D. Fachinotti, M. Bellet, H. Combeau, 3D-FEM modeling of macrosegregation in solidification of binary alloys, Proc. ESAFORM 7th Int. Conf. on Material Forming, Trondheim (Norway), April 28-30, 2004, S. Støren (ed.), Norwegian University of Science and Technology, (2004) 421-424.
- CP74 C. Champin, M. Bellet, F.M. Schmidt, J.F. Agassant, Y. Le Maoult, G. Denis, 3D finite element modeling of the stretch blow molding process, Proc. PPS-20, 20th Annual Meeting of the Polymer Processing Society, Akron (Ohio, USA), 20-24 June 2004, CDROM, The University of Akron (2004) 15 pages.
- CP75 S. Le Corre, M. Bellet, Two-phase modeling of metals solidification: a numerical approach for the thermo-mechanical problem, Proc. NUMIFORM'2004, 8th Int. Conf. on Numerical Methods in Industrial Forming Processes, Columbus (OH,

- USA), June 2004, S. Ghosh, J.M. Castro & J.K. Lee (eds.), American Institute of Physics, New York (2004) 1185-1190.
- CP76 V.D. Fachinotti, M. Bellet, A diffusion-split method to deal with thermal shocks using standard linear tetrahedral finite elements, Proc. NUMIFORM'2004, 8th Int. Conf. on Numerical Methods in Industrial Forming Processes, Columbus (OH, USA), June 2004, S. Ghosh, J.M. Castro & J.K. Lee (eds.), American Institute of Physics, New York (2004) 2258-2263.
- CP77 M. Bellet, E. Massoni, S. Boude, Finite element modelling of superplastic sheet forming processes. Identification of rheological and tribological parameters by inverse method, Proc. NUMIFORM'2004, 8th Int. Conf. on Numerical Methods in Industrial Forming Processes, Columbus (OH, USA), June 2004, S. Ghosh, J.M. Castro & J.K. Lee (eds.), American Institute of Physics, New York (2004) 1142-1147.
- CP78 V.D. Fachinotti, M. Bellet, A diffusion-split method to deal with thermal shocks using standard linear tetrahedral finite elements, Proc. ECCOMAS 2004, 4th European Congress on Computational Methods in Applied Sciences and Engineering., Jyväskylä (Finland), July 24-28, 2004, P. Neittaanmäki, T. Rossi, S. Korotov, E. Oñate, J. Périaux & D. Knörzer (eds.), CDROM ISBN 951-39-1869-6, 12 pages (2004)
- CP79 M. Bellet, S. Le Corre, V. D. Fachinotti, A 2-phase finite element model to study concurrent fluid flow and solid deformation occurring in mushy zones during the solidification of metallic alloys, Proc. S2P, Int. Conf. on Semi-Solid Processing of Alloys and Composites, Limassol, Cyprus, September 21-23, 2004, D. Apelian & A. Alexandrou (eds.), CDROM published by the University of Cyprus and the Worcester Polytechnic Institute (USA), 9 pages (2004)
- CP80 G. Marin, T. Billaudeau, E. Massoni, M. Bellet, S. Boude, L. Paris, Tribological parameter identification and assessment of necking criterion in superplastic forming, Proc. EURO-SPF 2004, 3rd European Conference on Superplastic Forming, Ecole des Mines d'Albi-Carmaux, France, July 7-9, 2004, G. Bernhart, T. Cutard, P. Lours (eds.), Cépaduès Editions, Toulouse (2004) 101-106.
- CP81 N. Triolet, M. Bobadilla, M. Bellet, Thermomechanical modeling of steel slab continuous casting: a useful tool to optimize process actuators, Proc. Journées Sidérurgiques Internationales, Paris, 9-10 décembre 2004, Association Technique de la Sidérurgie.
- CP82 C. Champin, M. Bellet, F.M. Schmidt, J.F. Agassant, Y. Le Maout, 3D finite element modeling of the blow molding process, Proc. ESAFORM 2005 8th Conf. on Material Forming, Cluj-Napoca (Romania), April 2005, vol. 2, The Romanian Academy Publishing House, Bucharest (2005) 905-908.
- CP83 N. Triolet, M. Bobadilla, L. Avedian, M. Bellet, The thermomechanical modeling of steel slab continuous casting: a useful tool to adapt process actuators, Proc. ECCO2005 5th European Conference on Continuous Casting, Nice, 20-22 June 2005, J.Y. Lamant et al. (eds.), Association Technique de la Sidérurgie Française (2005).
- CP84 S. Gouttebroze, M. Bellet, H. Combeau, 3D-FEM macrosegregation simulation on large steel ingots with adaptive anisotropic remeshing, Proc. ICCHMT, Paris, June 2005.

- CP85 V.D. Fachinotti, S. Le Corre, M. Bellet, Numerical modelling of the concurrent effect of solid deformation and melt flow on heat and solute transfer in binary alloys, with application to the secondary cooling stage of steel slabs continuous casting, in *Mecanica Computacional*, vol. XXIV, Proc. MECOM2005, VIII Congreso Argentino de Mecánica Computacional, A. Larretguy (ed.), Buenos Aires, 16-18 November 2005.
- CP86 G. Guillemot, C.A. Gandin, M. Bellet, Interactions between columnar solidification and segregation: a comparison of the predictions of the CAFE model with in-situ observations, Proc. MCWASP XI, 11th Int. Conf. on Modeling of Casting, Welding and Advanced Solidification Processes, Opio, France, May 28 - June 3, 2006, C.A. Gandin, M. Bellet (eds.), The Minerals, Metals & Materials Society, Warrendale, Pennsylvania, USA (2006) 307-314.
- CP87 M. Bellet, V.D. Fachinotti, A two-phase two-dimensional finite element thermomechanics and macrosegregation model of mushy zone. Application to continuous casting, Proc. MCWASP XI, 11th Int. Conf. on Modeling of Casting, Welding and Advanced Solidification Processes, Opio, France, May 28 - June 3, 2006, C.A. Gandin, M. Bellet (eds.), The Minerals, Metals & Materials Society, Warrendale, Pennsylvania, USA (2006) 169-176.
- CP88 C. Péquet, P. Lasne, M. Hamide, E. Massoni, M. Bellet, A coupled approach for the modelling of arc welding processes, Proc. MCWASP XI, 11th Int. Conf. on Modeling of Casting, Welding and Advanced Solidification Processes, Opio, France, May 28 - June 3, 2006, C.A. Gandin, M. Bellet (eds.), The Minerals, Metals & Materials Society, Warrendale, Pennsylvania, USA (2006) 855-862.
- CP89 S. Gouttebroze, W. Liu, H. Combeau, M. Bellet, 2D/3D Simulation of macrosegregation: a comparison between codes on a small cavity and on a large ingot, Proc. MCWASP XI, 11th Int. Conf. on Modeling of Casting, Welding and Advanced Solidification Processes, Opio, France, May 28 - June 3, 2006, C.A. Gandin, M. Bellet (eds.), The Minerals, Metals & Materials Society, Warrendale, Pennsylvania, USA (2006) 227-234.
- CP90 M. Hamide, E. Massoni, M. Bellet, C. Pequet, P. Lasne, Simulation thermomécanique du soudage avec apport de matière à l'aide d'une technique de remaillage adaptatif anisotrope, *Matériaux 2006*, Dijon, 13-17 novembre 2006, Conférence organisée par la Fédération Française des Matériaux, DVD-Rom ISBN 978-2-9528-1400-3 (2006) 12 pages.
- CP91 O. Cerri, Y. Chastel, M. Bellet, Rupture à chaud dans les aciers au cours de leur solidification : caractérisation expérimentale et modélisation thermo-mécanique, *Matériaux 2006*, Dijon, 13-17 novembre 2006, Conférence organisée par la Fédération Française des Matériaux, DVD-Rom ISBN 978-2-9528-1400-3 (2006) 10 pages.
- CP92 M. Hamide, M. Bellet, Modélisation thermomécanique du soudage : apport de matière et adaptation de maillage, Proc. 8^{ème} Colloque National en Calcul des Structures, Giens, A. Combescure et al. (eds.), Hermès-Lavoisier (2007) 143-148.
- CP93 M. Bellet, Two-phase multiscale FEM modelling of macrosegregation formation in steel slabs, Proc. Numiform2007, 9th Int. Conf. on Numerical Methods in Industrial Forming Processes, Porto, Portugal, 17-21 June 2007, J.M.A. Cesar de Sa & A.D. Santos (eds.), American Institute of Physics (2007) 1369-1374.
- CP94 M. Hamide, M. Bellet, Adaptive mesh technique for coupled problems. Application to welding simulation, Proc. Numiform2007, 9th Int. Conf. on Numerical Methods

in Industrial Forming Processes, Porto, Portugal, 17-21 June 2007, J.M.A. Cesar de Sa & A.D. Santos (eds.), American Institute of Physics (2007) 1561-1566.

- CP95 M. Bellet, A two-phase 2D finite element model for macrosegregation in steel continuous casting, Proc. SP07, 5th Decennial Int. Conf. on Solidification Processing, Sheffield, 23-25 July 2007, H. Jones (ed.), The University of Sheffield (2007) 424-427.
- CP96 M. Henri, M. Bobadilla, M. Bellet, Three-dimensional thermomechanical modelling of steel during primary cooling in continuous casting, Proc. LMPC07, Int. Symposium on Liquid Metal Processing and Casting, Nancy, France, 2-5 September 2007, P.D. Lee, A. Mitchell, J.P. Bellot, A. Jardy (eds.), Ecole des Mines de Nancy and SF2M (2007) 139-144.
- CP97 O. Cerri, Y. Chastel, M. Bellet, Experimental techniques and criteria for hot tearing of steels during solidification, Materials Processing Defects, Cornell, USA, 2007.
- CP98 M. Bellet, M. Hamide, Modélisation numérique des procédés de soudage par arc des aciers, Proc. Colloque National Mecamat, Aussois, 28 janvier – 1^{er} février 2008, Association Mecamat (2008) II-106-II-113
- CP99 O. Cerri, C. Pradille, Y. Chastel, M. Bellet, Prédiction de la fissuration à chaud d'aciers, Proc. Colloque National Mecamat, Aussois, 28 janvier – 1^{er} février 2008, Association Mecamat (2008) II-138-II-141
- CP100 S. Mosbah, M. Bellet, Ch.-A. Gandin, Modelling of diffusion based segregation with a coupled cellular automaton – finite element model, SF2M, June 2008
- CP101 M. Bellet, O. Cerri, Y. Chastel, Analysis of two hot tearing tests in solidification conditions and assessment of macroscopic criteria, SF2M, June 2008
- CP102 S. Mosbah, M. Bellet, Ch.-A. Gandin, CAFE Modelling of Segregation and Structure in Levitated Droplets, Proc. SG08, 8th Int. Conf. on Solidification and Gravity, Hungary, 2008, Mater. Sci. Forum 649 (2010) 237-242
- CP103 Ch.-A. Gandin, J. Blaizot, S. Mosbah, M. Bellet, G. Zimmermann, L. Sturz, D.J. Browne, S. McFadden, H. Jung, B. Billia, N. Mangelinck, H. Nguyen Thi, Y. Fautrelle, X. Wang, Modelling of Heat and Solute Interactions upon Grain Structure Solidification, Proc. SG08, 8th Int. Conf. on Solidification and Gravity, Hungary, 2008, Mater. Sci. Forum 649 (2010) 189-198
- CP104 S. Mosbah, M. Bellet, Ch.-A. Gandin, Simulation of solidification grain structures with a multiple diffusion length scales model, Proc. MCWASP XII, 12th Int. Conf. on Modeling of Casting, Welding and Advanced Solidification Processes, Vancouver & Alaska, June 7-13, 2009, S. Cockcroft, D. Maijer (eds.), The Minerals, Metals & Materials Society, Warrendale, Pennsylvania, USA (2009) 485-493.
- CP105 M. Bellet, M. Hamide, C. Pequet, P. Lasne, New numerical technologies for the simulation of arc welding processes, Proc. MCWASP XII, 12th Int. Conf. on Modeling of Casting, Welding and Advanced Solidification Processes, Vancouver & Alaska, June 7-13, 2009, S. Cockcroft, D. Maijer (eds.), The Minerals, Metals & Materials Society, Warrendale, Pennsylvania, USA (2009) 563-570.
- CP106 R. Forestier, F. Costes, O. Jaouen, M. Bellet, Finite element thermomechanical simulation of steel continuous casting, Proc. MCWASP XII, 12th Int. Conf. on Modeling of Casting, Welding and Advanced Solidification Processes, Vancouver &

Alaska, June 7-13, 2009, S. Cockcroft, D. Maijer (eds.), The Minerals, Metals & Materials Society, Warrendale, Pennsylvania, USA (2009) 295-302.

- CP107 C. Pradille, C. Aime, G. Ricort, M. Bellet, Y. Chastel, Méthode interspectre pour le suivi des déformations des aciers à chaud, Congrès Français de Mécanique, Marseille (2009)
- CP108 H. Combeau, M. Bellet, Y. Fautrelle, D. Gobin, M. Rady, E. Arquis, O. Budenkova, B. Dussoubs, Y. Duterrail, A. Kumar, Ch.-A. Gandin, B. Goyeau, S. Mosbah, M. Založnik, Benchmark sur la simulation des macroségrégations lors de la solidification d'un alliage : première synthèse, Actes du Congrès de la Société Française de Thermique 2010, Le Touquet, 25-28 mai (2010) 493-498.
- CP109 P. Mondalek, L. Silva, L. Durand, M. Bellet, Numerical Modelling of thermal-electrical phenomena in spark plasma sintering, Proc. Numiform2010, 10th Int. Conf. on Numerical Methods in Industrial Forming Processes, Pohang, South Korea, 13-17 June 2010, F. Barlat (ed.) (2010) 697-704.
- CP110 C. Pradille, M. Bellet, Y. Chastel, A Laser Speckle Method for Measuring Displacement Field. Application to Resistance Heating Tensile Test on Steel, in Advances in Experimental Mechanics VII, Proc. 7th BSSM Int. Conf. on Advances in Experimental Mechanics, Liverpool, 7-9 September 2010, R.A.W. Mines and J.M. Dulieu-Barton (eds.), Applied Mechanics and Materials 24 (2010) 135-140.
- CP111 M. Bellet, P. Mondalek, L. Silva, Numerical Modelling of SPS Process, Proc. 13th Int. Conf. on Metal Forming, Toyohashi, Japan, 18-22 September 2010, K. Mori et al. (ed.), Steel Research Int. 81 (2010) 1340-1343.
- CP112 P. Mondalek, L. Silva, M. Bellet, Modélisation numérique électrique-thermique-mécanique du procédé de frittage flash, Matériaux 2010, October 18-22, 2010, Nantes, DVD-Rom published by Fédération Française des Matériaux, ISBN 978-2-9528-1403-4 (2010) 10 pages.
- CP113 H. Combeau, M. Bellet, Y. Fautrelle, D. Gobin, E. Arquis, O. Budenkova, B. Dussoubs, Y. Duterrail, A. Kumar, S. Mosbah, M. Rady, C.A. Gandin, B. Goyeau, M. Založnik, Formation de macroségrégations pendant la solidification d'un alliage Sn-Pb : Synthèse des premiers résultats d'un benchmark, Matériaux 2010, October 18-22, 2010, Nantes, DVD-Rom published by Fédération Française des Matériaux, ISBN 978-2-9528-1403-4 (2010) 9 pages.
- CP114 H. Combeau, M. Bellet, Y. Fautrelle, D. Gobin, E. Arquis, O. Budenkova, B. Dussoubs, Y. Duterrail, A. Kumar, B. Goyeau, S. Mosbah, T. Quatravaux, M. Rady, Ch.-A. Gandin, M. Založnik, A Numerical Benchmark on the Prediction of Macroseggregation in Binary Alloys, TMS meeting, Symposium Frontiers in Solidification Science (2011)
- CP115 P. Mondalek, Giens 2011
- CP116 O. Boughanmi, Giens 2011
- CP117 H. Combeau, M. Bellet, Y. Fautrelle, D. Gobin, E. Arquis, O. Budenkova, B. Dussoubs, Y. Duterrail, A. Kumar, B. Goyeau, S. Mosbah, M. Rady, Ch.-A. Gandin, M. Založnik, First Analysis of a Numerical Benchmark for 2D Columnar Solidification, Conf. STEELSIM, Düsseldorf, Germany, June 2011.
- CP118 G. Fidel, SteelSim, 2011

Communications in Conferences, without Proceedings

- C1 M. Bellet, Y. Combres, C. Levallant, J.L. Chenot, A finite element model for superplastic forming, ASME Fall Meeting, Cincinnati (OH), USA, October 1987
- C2 M. Bellet, Modélisation par éléments finis de la mise en forme des métaux à chaud, Journée GAMNI/SMAI "Modélisation numérique des solides viscoélastiques ou viscoplastiques en grandes déformations", Ecole Polytechnique, Palaiseau, France, 19 December 1990.
- C3 M. Bellet, E. Massoni, J.L. Chenot, Finite element modelling of sheet forming processes, Workshop USA/France on The Numerical Simulation of Metal Forming Processes, Cornell University, Ithaca (NY), USA, 12-14 May 1992
- C4 F.M. Schmidt, J.F. Agassant, M. Bellet, G. Denis, Etude et modélisation de l'étirage-soufflage de bouteilles en PET, Colloque National Matériaux - Science et Industrie, La Vilette, Paris, June 11-12 1992.
- C5 M. Bellet, Finite element modelling of Hot Powder Compaction, International Workshop on Modelling of Metal Powder Forming Processes, Grenoble, France, July 21-23, 1997.
- C6 J.F. Agassant, M. Bellet, Simulation numérique du soufflage de corps creux, 1^{er} Colloque Rotomoulage, Soufflage et Thermoformage, Tours, 1-2 December 2005.
- C7 C. Champin, Y Le Maout, M. Bellet, F. Schmidt, Modélisation de l'étape de chauffage par infra-rouge dans les procédés de soufflage et de thermoformage, 1^{er} Colloque Rotomoulage, Soufflage et Thermoformage, Tours, 1-2 December 2005.
- C8 M. Bellet, M. Hamide, Ch. Péquet, E. Massoni, P. Lasne, Modeling of arc welding of steels. Contribution of dynamic mesh adaptation, 4th Seminar on Numerical Simulation of Welding, French Mechanics Association, Paris La Défense, March 24, 2006.
- C9 G. Guillemot, Ch.-A. Gandin, M. Bellet, Influence of macrosegregation on developing grain structures: a comparison of predictions with experimental observations, Symposium "Solidification Modelling and Microstructure Formation", TMS Annual Meeting and Exhibition, San Antonio, USA (2006).
- C10 M. Henri, M. Bellet, Three-dimensional thermomechanical modelling of steel during primary cooling in continuous casting, SteelSim, 2nd Int. Conf. on Modelling and Simulation of Metallurgical Processes in Steelmaking, Graz/Seggau, Austria, 12-14 September 2007.
- C11 B. Rivaux, H. Zhang, M. Bellet, Ch.-A. Gandin, 3D-Modelling of macrosegregation during solidification of metallic alloy, EUROMAT 2009, European Congress and Exhibition on Advanced Materials and Processes, Glasgow, 7-10 September 2009.
- C12 Ch.-A. Gandin, M. Bellet, S. Mosbah, K. Sabat da Cruz, N. Mangelinck, B. Billia, Modelling of solidification structures and segregations in Al-7wt%Si, comparisons of Bridgman experiments and CAFE simulations, 4th Int. Conf. on Solidification Science and Processes, Chennai, India, November 20, 2009.

Miscellaneous

- M1 M. Bellet, Modélisation numérique du formage superplastique de tôles, PhD Dissertation, Ecole Nationale Supérieure des Mines de Paris (1988)
- M2 M. Bellet, P. Montmitonnet, E. Massoni, J.L. Chenot, Séminaire de Plasticité et Mise en Forme des Métaux, Ecole des Mines de Paris, Centre de Mise en Forme des Matériaux, Sophia Antipolis, France, 17-21 September 1990, Ecole des Mines de Paris (1990)
- M3 M. Bellet, Mécanique et thermique des milieux continus, Séminaire de Plasticité et Mise en Forme des Métaux, Ecole des Mines de Paris, Centre de Mise en Forme des Matériaux, Sophia Antipolis, France, 17-21 September 1990, M. Bellet, P. Montmitonnet, E. Massoni, J.L. Chenot (eds.), Ecole des Mines de Paris, vol.1, chap.1 (1990)
- M4 M. Bellet, C. Levailant, Ductilité en mise en forme des métaux, Séminaire de Plasticité et Mise en Forme des Métaux, Ecole des Mines de Paris, Centre de Mise en Forme des Matériaux, Sophia Antipolis, France, 17-21 September 1990, M. Bellet, P. Montmitonnet, E. Massoni, J.L. Chenot (eds.), Ecole des Mines de Paris, vol.1, chap.5 (1990)
- M5 M. Bellet, J.L. Chenot, L. Fourment, E. Massoni, P. Montmitonnet, Séminaire de Plasticité. Eléments Finis et Mise en Forme des Métaux, Ecole des Mines de Paris, Centre de Mise en Forme des Matériaux, Sophia Antipolis, France, 26-30 September 1994, Ecole des Mines de Paris (1994)
- M6 M. Bellet, Mécanique et thermique des milieux continus, Séminaire de Plasticité. Eléments Finis et Mise en Forme des Métaux, Ecole des Mines de Paris, Centre de Mise en Forme des Matériaux, Sophia Antipolis, France, 26-30 September 1994, M. Bellet, J.L. Chenot, L. Fourment, E. Massoni, P. Montmitonnet (eds.), Ecole des Mines de Paris, vol.1, chap.1 (1994)
- M7 M. Bellet, Simulation numérique de la compaction des poudres métalliques, Séminaire de Plasticité. Eléments Finis et Mise en Forme des Métaux, Ecole des Mines de Paris, Centre de Mise en Forme des Matériaux, Sophia Antipolis, France, 26-30 September 1994, M. Bellet, J.L. Chenot, L. Fourment, E. Massoni, P. Montmitonnet (eds.), Ecole des Mines de Paris, vol.3, chap.15 (1994)
- M8 M. Bellet, Méthodes eulériennes-lagrangiennes. Application au remplissage de moules en fonderie, Séminaire de Plasticité. Eléments Finis et Mise en Forme des Métaux, Ecole des Mines de Paris, Centre de Mise en Forme des Matériaux, Sophia Antipolis, France, 26-30 September 1994, M. Bellet, J.L. Chenot, L. Fourment, E. Massoni, P. Montmitonnet (eds.), Ecole des Mines de Paris, vol.3, chap.19 (1994)
- M9 M. Bellet, Modélisation numérique de la mise en forme des métaux (Numerical Modelling of Metal Forming Processes), Invited seminar, Materials Department of Ecole Polytechnique Fédérale de Lausanne, Switzerland, March 20, 1998.
- M10 M. Bellet, Simulation par éléments finis des procédés de soufflage des polymères : thermoformage, extrusion-soufflage (Finite Element Simulation of Polymer Blowing Processes: Thermoforming, Extrusion Blow-Molding, Invited seminar, Materials Department of Ecole Polytechnique Fédérale de Lausanne, Switzerland, March 27, 1998.

- M11 M. Bellet, Modélisation par éléments finis de la compaction des poudres métalliques (Finite element modelling of metal powder compaction processes), Invited seminar, Materials Department of Ecole Polytechnique Fédérale de Lausanne, Switzerland, April 24, 1998.
- M12 M. Bellet, L'apport de la simulation numérique dans les procédés de mise en forme des matériaux (Numerical simulation of material processing), Journée Industrielle "La Voiture de Demain", Ecole des Mines de Paris, March 11, 1999.
- M13 M. Bellet, Mise en forme des matériaux : simulation numérique par éléments finis (Metal processing : finite element numerical modelling), Invited seminar, Mechanics and Materials Departments of Ecole Polytechnique Fédérale de Lausanne, Switzerland, April 15, 1999.
- M14 M. Bellet, Simulation de la fonderie : quelques développements en cours au Cemef (Casting simulation: some developments in progress in Cemef), Invited seminar, Meeting of THERCAST users'club, Saint-Etienne, March 8, 2002.
- M15 M. Bellet, Thermomécanique et solidification: travaux récents du Cemef (Thermomechanics and solidification: recent work of Cemef), Invited seminar, Meeting of THERCAST users'club, Saint-Etienne, October 7, 2003.
- M16 M. Bellet, Modélisation numérique des procédés de solidification, Invited seminar, National Polytechnic Institute of Grenoble, laboratory EPM-Madylam, October 1st, 2004.
- M17 M. Bellet, THERCAST: quelques développements récents (THERCAST: some recent developments), Invited seminar, Meeting of THERCAST users'club, Saint-Etienne, January 11, 2005.
- M18 M. Bellet, Numerical modelling of solidification processes, Invited seminar, Universitat Polytechnica de Catalunya (CIMNE), Barcelona, 6 May 2005.
- M19 M. Bellet, Modélisation thermomécanique des procédés de déformation plastique et de solidification, Mémoire d'Habilitation à Diriger des Recherches, Université de Nice - Sophia-Antipolis, 8 juillet 2005.
- M20 M. Bellet, Simulation du rechargement laser sur aubes de turbine en superalliage base nickel, Séminaire sur les Procédés de fabrication et de réparation par laser : approches expérimentales et numériques, Ecole des Mines de Paris, Centre des Matériaux, Evry, 5 octobre 2007.
- M21 M. Bellet, Mécanique des milieux poreux : quelques exemples étudiés au Cemef, Séminaire du Département "Mécanique et Matériaux" de Mines-ParisTech : "Matériaux à porosité contrôlée", 3 décembre 2009.
- M22 M. Bellet, Simple Constitutive Models for Metallic Alloys in the Mushy State. Implementation in THERCAST, CEMEF Internal Report, January 2010.
- M23 M. Bellet, Le projet CracCracks, Concerted Research for Analysis of CRACK phenomena during Solidification of Steels, Colloque à Mi-Parcours des projets ANR Matériaux-Procédés 2007, Institut des Nanosciences, Paris, 21-22 juin 2010.

Organization of Conferences, Seminars and Symposiums

- O1. M. Bellet, P. Montmitonnet, E. Massoni, J.L. Chenot, Séminaire de Plasticité et Mise en Forme des Métaux, Ecole des Mines de Paris, Centre de Mise en Forme des Matériaux, Sophia Antipolis, France, 17-21 September 1990.
- O2. M. Bellet, J.L. Chenot, L. Fourment, E. Massoni, P. Montmitonnet, Séminaire de Plasticité. Eléments Finis et Mise en Forme des Métaux, Ecole des Mines de Paris, Centre de Mise en Forme des Matériaux, Sophia Antipolis, France, 26-30 September 1994.
- O3. M. Bellet, J. Rasty, ESDA'96 ASME Engineering Systems Design and Analysis Conference, Montpellier, France, 1-4 July 1996. Co-chairman of symposium "Manufacturing-Metal Forming". Co-editor of the proceedings: vol.3 Composite Materials - Manufacturing - Fatigue/Fracture, The American Society of Mechanical Engineers, New York, USA.
- O4. C.A. Gandin, M. Bellet, MCWASP XI, 11th Int. Conf. on Modeling of Casting, Welding and Advanced Solidification Processes, Opio, France, May 28 – June 2, 2006.
- O5. M. Bellet, Y. Bienvenu, Séminaire du Département "Mécanique et Matériaux" de Mines-ParisTech sur le thème : "Matériaux à porosité contrôlée", 3 décembre 2009.