

## C U R R I C U L U M V I T A E



Name, First name : **JEANDIN, Michel**

Date and place of birth : 14 February 1955 (64), Rouen, FRANCE

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Marital status : Married, 2 children

### Languages

- Mother tongue: French
- Knowledge of **English**: Fluent (various stays in English - speaking countries and many contributions to international conferences all over the world).
- Knowledge of **Italian**: Fairly good after a 6-month stay in Italy in 1989 coupled with intensive (5h a week) Italian classes given by the Education Service of the C.E.C.
- Knowledge of **Spanish**: Moderate (experience mainly at school).
- Knowledge of **Japanese**: Moderate (through continuing education since 1998). Awarded the Level 4 degree at the International Japanese Language Proficiency Test , in 2007. Preparation for level 3 from this date.

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CURRENTLY: **Research Professor** "Directeur de Recherche" at MINES ParisTech,  
Coating and surface processing, Tribology.

and

*Former Director* of the Center for spray Processing (C2P), which operated from Sept. 1995 to July 2016 under the auspices of the " Ecole des Mines de Paris", the French Atomic Research Agency (C.E.A.) and the University of Evry d'Essonne.

and

**Consultant** (*liberal statute*), Materials Science & Engineering, Technology vision.



#### **Education and professional milestones:**

- 1977,** Engineer, graduated from the "Ecole Centrale de Lyon".

**1981,** A Ph.D by the "Ecole des Mines de Paris" for work on the liquid phase sintering of superalloys.

**1981-82,** Post Doctoral position at the "Ecole des Mines de Paris", in charge of studies of high-temperature materials.

**1983,** Appointed R. & D. Engineer in the Corrosion Department for 8 months with FRAMATOME Company (manufacture of nuclear components).

**1984,** Return to the "Ecole des Mines de Paris". Assistant Research Group Leader in the field of Powder Metallurgy and Advanced Processes.

**1989,** Visiting Scientist at the Joint Research Center/Ispra (Italy) of the Commission of the European Communities (C.E.C.) for 6 months.

**1991,** Visiting Scientist at the Imperial College (Dept. of Materials)/London for 2 months.

**1992-1995,** In addition to research and teaching activities, initiation then running of a project to create a center for plasma spraying processes (C2P), which included the design and building of a new laboratory with the purchasing of big facilities (for ~1.5M€)

**2001,** Habilitation degree ("Habilitation à Diriger des Recherches") from the University of

#### Main Research Areas:

. Thermal spray, laser processing and other surface treatments (shot peening, electrophoresis, ion implantation...); Powder metallurgy of superalloys, Fe-based, Al-based alloys and composites; Tribology.

*Research work carried out through direct contracts with French and foreign industrialists, through national and international agencies and through European projects (FP, BRITE-EURAM, EUREKA, PROCOPE... leader of some of them).*

MJ career keyword cloud  
Courtesy of Carnot ARTS, 2016

## **Teaching:**

- . Lectures on general metallurgy to the 1<sup>st</sup> year students at the "Ecole des Mines de Paris" (School of Mines/Paris, now MINES ParisTech).
  - . Lectures on surface processing and tribology to post-graduate students at the "Ecole des Mines" ("Mastère" degree).
  - . Lectures on thermal spray and tribology at the University of Evry (France) (Master degree).
  - . Various educational training classes (at undergraduate and graduate levels) dealing with thermal spray, tribology, powder metallurgy, advanced analysis...

## Honors and Awards:

- . Chevalier of the Order of the “ Palmes Académiques ” (French academic decoration for services to education), promoted in 2008.
- . Fellow of ASM, elected in 2004.
- . Appointed in 2018 as one of the two members for materials science and engineering in the Chemical Engineering Committee (“Comité des Arts Chimiques” ) at the Society for the Encouragement of the French Industry (“Société d’Encouragement de l’Industrie Nationale (SEIN)”).
- . Vice-Chairman of the board of directors of the “ Matériaupôle ” association ( a French institution for the promotion of interactions between materials science & engineering, arts and design fields (from both academic and industrial worlds)), elected in 2009.
- . Founding member and coordinator of the international Cold Spray Club (46 industrialists and 34 academic members from all over the world in 2019)  [www.mat.ensmp.fr/clubcoldspray](http://www.mat.ensmp.fr/clubcoldspray)
- . Awarded the “THERMEC’2016 Distinguished Award” for his all career in materials science.
- . Best Paper Award from the Journal Thermal Spray Technology, 2012.
- . Initiator and coordinator of the part of the work using thermal spray in the achievement of the creation by Ludwig&Dominique and Noir Vif who were awarded the Liliane Bettencourt Prize for the “Intelligence de la main®” in 2019.
- . Supervisor of the “Best Ph.D study” (by G. Rolland) awarded from the French Materials Society, 2010 and of the “Best PhD study” (by Sophie Barradas) awarded by the High-Power Laser Society, 2005.
- . Best oral presentation at the “Finishair” Int. Conference, Issoire, 2007.
- . Ranked in the 5 best papers published in Journal of Thermal Spray Technology, 1999.
- . Best Paper Award at the 15th International Conf. on Thermal Spraying (ITSC), 1998.
- . Awarded a 3<sup>rd</sup> prize from the Institute of Metals (U.K.) in the METASERV competition, 1988.
- . Senior Chairman of (more than 15) national and international conferences and member of the Liaison Committee of more than 25 international conferences. General Chairman of THERMEC’2018 which welcomed 1650 delegates.
- . Co- Editor of 9 volumes in the "Surface Modification Technologies" book series.
- . Author of various chapters in several books and full author of a book (in French) on Materials (submitted for publication in 2019).

- . Contributions in materials topics to general knowledge books ( French Larousse and Atlas encyclopedias, Materials handbooks...).
- . Member of the Expert Panel for the evaluation of projects submitted to the European Union within the 6<sup>th</sup> Framework Program, 2003.
- . General Coordinator of a "European High-Temperature Materials White Book" : A 1.5-year survey (1984-1985) under the auspices of the Commission of the European Communities.
- . Member of the Committee at the defense of foreign PhD theses (in India, Singapore, Japan, Sweden, Turkey, ...)
- . Member of the Editorial Panel "Materials and Manufacturing Processes" (U.S.A), Surface Engineering (U.K.), Materials Engineering (U.K.), and "Traitements & Matériaux" (France).
- . Member of ASM-International ( The Materials Information Society), TSS ( The ASM Thermal Spray Society , TMS ( The Materials Society), SF2M (The French Materials Society), SFT ( The French Society of Tribology), GFC ( The French Ceramic Society) and A3TS (The French Heat and Surface Treatments Society).
- . Security Clearance, French Defense.
- . Eligible for the French Mensa Club (IQ>140), 1983.

### **Other Interests:**

- . Triathlon (1.5/40/10), swimming, running (up to half-marathon) and gymnastics (assiduously done).
- . Music. I can play the piano (music lessons learnt during 13 years) and guitar a little.
- . Fine and contemporary arts

## **PUBLICATIONS** (*updated on 31 December 2019*)

**Refereed journals in bold** (*171 over a total number of 417 publications excluding patents at the end of the list*).

### **2019**

- L. BAUDIN, M. SITKO, C. GARION, P. CHIGGIATO, F. DELLORO, F. GASLAIN, M. SENNOUR, M. JEANDIN, D. BAJEK, S. WACKEROW, A. ABDOLVAND, "Morphological and Chemical Characterization of Laser Treated Surface on Copper", **Key Engineering Materials** 813(2019)254-260.

- P. LOMONACO, S. WEILLER, I. FEKI, A. DEBRAY, F. DELLORO, M. JEANDIN, B. FAVINI, C. ROSSIGNOL, "Cold Spray Technology to Promote Conductivity of Short Carbon Fiber Reinforced Polyether-Ether-Ketone (PEEK)", **Key Engineering Materials** 813(2019)459-464.
- S. WEILLER, F. DELLORO, P. LOMONACO, M. JEANDIN, C. GARION, "A Finite Element Study on Porosity Creation Mechanisms in Cold Sprayed Coatings", **Key Engineering Materials** 813(2019)358-363.
- V. BORTOLUSSI, B. FIGLIUZZI, F. WILLIOT, M. FAESSEL, M. JEANDIN, "Electrical conductivity of metal-polymer cold spray composite coatings onto Carbon-Fiber-Reinforced Polymer (CFRP)", **Journal of Thermal Spray Technology**, In press (2019), For publication in vol. 29(2020)642-656.
- M. JEANDIN, F. DELLORO, M. BUNEL, "Advanced Modeling and Simulation Tools to Address Build-Up Issues in Additive Manufacturing by Cold Spray", **A full chapter (# 5)** as Chief Author in "Cold Spray in the Realm of Additive Manufacturing", G. Saha et al. eds, Springer, New York, NY, USA, In press (2019), For publication in (2020)129-175.
- F. DELLORO, D. ZAGOURI, M. JEANDIN, M. BOUSTIE, S.A.E. BOYER, M. BERINGHIER, "Nanosecond pulsed laser induced shocks at the microsecond time scale: VISAR measurements and simulations", Proc. of the "24ème congrès français de mécanique", Brest, France, 26-30 August, 2019, P. Pilvin et al. eds, CNRS-CCSD Publ., Paris, S14(2019)1-6.
- L. AUBANEL, L. LEFEIVRE, F. DELLORO, M. JEANDIN, E. SURA, "Cold spray coatings for automotive cylinder block application", Proc. of the Int. Thermal Spray Conf. and Exposition (ITSC '2019)", Yokohama, Japan, 26-29 May, 2019, F. Azarmi et al. eds, , DVS Media GmbH, Düsseldorf, Germany, (2019)433-440.
- P. LOMONACO, F. GASLAIN, F. DELLORO, M. JEANDIN, B. FAVINI, S. LEPRIZE, "Cold spray coatings of wood for cabinet making applications", Proc. of the Int. Thermal Spray Conf. and Exposition (ITSC '2019)", Yokohama, Japan, 26-29 May, 2019, F. Azarmi et al. eds, , DVS Media GmbH, Düsseldorf, Germany, (2019)824-830.
- S. WEILLER, A. DEBRAY, F. GASLAIN, M. SENNOUR, F. DELLORO, M. JEANDIN, C. GARION, "Cold spray as an innovative process to develop leak-tight aluminum coatings for ultra-high vacuum applications in a large particle high-energy collider", Proc. of the Int. Thermal Spray Conf. and Exposition (ITSC '2019)", Yokohama, Japan, 26-29 May, 2019, F. Azarmi et al. eds, , DVS Media GmbH, Düsseldorf, Germany, (2019)831-837.
- L.-H. BRASSART, F. DELLORO, M. JEANDIN, D. HABOUSSA, S. BLUSSEAU, F. WILLOT, G. ROLLAND, "Metallographic Assessment of Interface Adhesion Applied to 316L Stainless Steel Cold Spray Coatings", Accepted for oral presentation at the 34<sup>th</sup> Int. Conf. on Surface Modification Technologies (SMT 34), Poitiers-Futuroscope, France, 27-30 Oct., 2020, M. Fillon et al. eds., To be published in the proc. of the conference, In press (2019).
- M. JEANDIN, "La recherché en matériaux nouveaux pour les arts plastiques", **Invited talk** (in French) presented at the "Fête de la Science : Café des Arts, des Sciences et des Techniques", Paris, France, 12 Oct. 2019, C. Lavigne ed., Ars Mathematica publ., WebCast # 7.2019, <https://www.dailymotion.com/video/x7mp3a9>, (2019).
- M. JEANDIN, M. DUCOS, « Projection dynamique par gaz froid (« cold spray »), An **invited chapter** as Chief Author in "Les Techniques de l'Ingénieur" (in French), TI Editions, Accepted for publication in 2020, M1648(2019)35p.

- H. DURAND, M. JEANDIN, F. DELLORO, F. MORVAN, "Caractérisation du comportement mécanique en dynamique rapide pour les poudres utilisées en cold spray ", Oral presentation(in French) at the " MECADYMAT", Bordeaux, France, 27-28 March, 2019, P. Longère et al. eds, Unpublished. (2019).

## **From 1978 to 2018**

- M. JEANDIN, B. FIEUX and J.P. TROTTIER, "Elaboration et Propriétés du Superalliage de Nickel Astroloy Obtenu par Frittage puis Forgeage ou Pressage Isostatique des Poudres Préallierées", Contribution to "Journées d'Automne 1978" Conf. Paris, France, Oct., 1978, S.F.M.
- M. JEANDIN, B. FIEUX and J.P. TROTTIER, "P/M Superalloys Obtained by Forging or HIP'ing Vacuum Sintered Preforms", Proc. of "P/M '80" Conf., Washington D.C., U.S.A., 24-27 June, 1980, H.H. Hausner et al. eds, MPIF/APMI, Princeton, NJ, U.S.A., 14(1981)65.
- M. JEANDIN, B. FIEUX and J.P. TROTTIER, "P/M Superalloys Obtained by Forging or HIP'ing Vacuum Sintered Preforms", **Industrial Heating** January (1981)29.
- M. JEANDIN, "Necklace Structure Obtained by Forging Astroloy Supersolidus-Sintered Preforms", **Journal of Materials Science** 17(1982)2902.
- M. JEANDIN, C. AUBIN and Y. BIENVENU, "P/M Superalloys Research at the School of Mines/Paris, **Metal Powder Report** 37(1982)187.
- M. JEANDIN, J.L. KOUTNY and Y. BIENVENU, "Frittage en Présence d'une Phase Liquide de Poudres de Superalliages : Aspects Structuraux et Thermochimiques", Proc. of "P/M '82" Conf., Florence, Italy, 20-25 June, 1982, A.I.M., Milano, Italy, (1982)323.
- M. JEANDIN, J.L. KOUTNY and Y. BIENVENU, "Rheology of Solid-Liquid P/M Astroloy-Application to Supersolidus Hot Pressing of P/M Superalloys", **International Journal of Powder Metallurgy and Powder Technology** 18(1982)217.
- M. JEANDIN, J.L. KOUTNY and Y. BIENVENU, "Forging Astroloy Supersolidus-Sintered Prefroms : Necklace Structure Achievement", Proc. of "High Temperature Alloys for Gas Turbine '82" Conf. Liège, Belgium, 4-6 Oct. , 1982, R. Brunetaud et al. eds., D.R. Reidel Publish. Co., Dordrecht, Holland, (1982)1029.
- M. JEANDIN, J.P. TROTTIER, J.L. KOUTNY and Y. BIENVENU, "A Two-Stage Compaction Process of Superalloys Powders : Pre-Sintering + HIP", Proc. of the "2nd Int. Conf. on Isostatic Pressing", Stratford-upon-Avon, U.K., 21-23 Sept., 1982, MPR Publish., Shrewsbury, U.K., 1(1982)8.
- M. JEANDIN, J.L. KOUTNY and Y. BIENVENU, "Liquid Phase Sintering of Nickel Base Superalloys", **Powder Metallurgy** 26(1983)17
- M. JEANDIN, J.L. KOUTNY and Y. BIENVENU, "Mise en forme de Superalliages par des Procédés de Frittage en Présence d'une Phase Liquide", Contribution to "Journées d'Automne 1983" Conf., Paris, France, Oct., 1983, S.F.M., Paris, France.
- M. JEANDIN, J.C. LEFLOUR, Y. BIENVENU and J.L. KOUTNY, "Mise en Forme de Poudres Préallierées par des Procédés Dérivés du Frittage en Présence d'un Phase liquide", Proc. of "Colloquium on Unconventional Forming Processes in Powder Metallurgy", Paris, France, 19-20 Sept., 1984, S.F.M., Paris, France, (1984)9.

- M. JEANDIN, Y. BIENVENU and J.L. KOUTNY, "Liquid Phase Sintering of Nickel Base Superalloys", Proc. of the "5th Int. Symp. on Superalloys", Seven Springs, U.S.A., 7-11 Oct., 1984, M. Gell et al. eds., The Met. Soc. of AIME, Warrendale, Pa., U.S.A., (1984)467.
- M. JEANDIN, J.P. TROTTIER, J.L. KOUTNY and Y. BIENVENU, "A Two-Stage Process: Presintering + HIP", **Metal Powder Report** 39(1984)495.
- S. RUPP, M. JEANDIN, V. PARIENTI, Y. BIENVENU and J. MASSOL, "Informations Obtenues par l'Analyse Automatique d'Image sur la Répartition des Phases Solides et Liquides au cours de l'Elaboration par Solidification ou Frittage", Proc. of "Analyse d'Images par Microscopie Quantitative en Métallurgie" Conf., Pont-à-Mousson, France, Nov., 1985, S.F.M., Paris, France, (1985)53.
- Y. BIENVENU, T.C. LU, J.C. LE FLOUR and M. JEANDIN, "Rôle de la Surface en Métallurgie des Poudres Métalliques", (in French), **Annales de Chimie**, 11(1986)489.
- M. JEANDIN, S. RUPP, J. MASSOL and Y. BIENVENU, "Structural Study and Image Analysis of Rapidly-Cooled Supersolidus-Sintered Astroloy", **Materials Science and Engineering** 77(1986)139.
- M. JEANDIN, J.D. BARTOUT and F. GRILLON, "Advanced Microstructural SEM Observations and Image Analyses of P/M Materials", Proc. of "Future of Powder Metallurgy, P/M '86" Conf., Düsseldorf, F.R.G., 7-11 July, 1986, W.A. Kaysser et al. eds., Verlag Schmid GmbH, Freiburg, F.R.G., (1986)773.
- Y. BIENVENU, M. JEANDIN and T. MASSART, "Métallurgie du Soudage par Diffusion", Proc. of "Métallurgie et Physico-chimie de l'Assemblage des Matériaux" Conf., Saclay, France, 23-25 June, 1986, I.N.S.T.N. Gif-sur-Yvette, France, (1986)77.
- M. JEANDIN, J.D. BARTOUT, Y. BIENVENU and F. GRILLON, "Advanced Micro-structural Observations of the Necklace Structure of a P/M Nickel-Base Superalloy", Proc. of "TMS Fall Meeting", Orlando, U.S.A., 5-9 Oct., 1986, The Metallurgical Society of AIME, Warrendale, U.S.A., (1986)14.
- T.C. LU, Y. BIENVENU, M. JEANDIN, O. FARAL and J.H. DAVIDSON, "The Influence of HIP Processing Variables on the Microstructure of Low-Carbon Astroloy", Proc. of "TMS Fall Meeting", Orlando, U.S.A., 5-9 Oct., 1986, The Metallurgical Society of AIME, Warrendale, U.S.A., (1986)9.
- Y. BIENVENU, J.C. LE FLOUR and M. JEANDIN, "Quelques Possibilités d'Applications de Poudres", Proc. of "Progrès dans les Méthodes d'Investigation des Métaux et des Nouveaux Matériaux", Saint-Etienne, France, Nov., 1986, Cercle d'Etude des Métaux, Paris, France, 1986)15.
- M. JEANDIN, S. RUPP, J. MASSOL and Y. BIENVENU, "Fundamental Study of the Later Stages of Liquid Phase Sintering of a Ni Base P/M Superalloy - Metallographic Observations on Quenched Supersolidus-Sintered Materials", Proc. of the "6th World Round Table" Conf., Herceg-Novi, Yugoslavia, 2-6 Sept., 1985, G.C. Kuczunski et al., eds., Plenum Press, New York, U.S.A., (1987)179.
- Y. BIENVENU, T. MASSART, L. VAN WOUW, M. JEANDIN and A. MORRISON, "The Metallurgy of Diffusion Bonding", Proc. of "Diffusion Bonding" Conf., Cranfield, U.K., 7-8 July, 1987, R. Pearce ed., SIS, Bedford, U.K., (1987)33.
- M. JEANDIN, J.L. KOUTNY and Y. BIENVENU, "Joining of Ni-based Superalloy by Liquid Phase Bonding and Hot Isostatic Pressing", **High Temperature Technology** 6(1988)3.
- D. FAYEULLE, M. JEANDIN, J.P. HENON, J. BOURGUINAT and R. MORBIOLI, "Thermal Barrier Bond Coats Obtained by Electrophoretic Deposition", Proc. of "P/M Aerospace Materials" Conf., Luzern, Switz., 1-4 Nov., 1987, MPR Publish., Shrewsbury, U.K., (1988)39.

- M. JEANDIN, J.D. BARTOUT and F. GRILLON, "Advanced Microstructural Observations of Gas Turbine P/M Materials", *Ibid.* the previous ref., (1988)6.
- D. FAYEULLE, M. JEANDIN and R. MORBIOLI, "Nouveau Type de Sous-Couche pour Barrières Thermiques Obtenu par Dépôt Electrophorétique de Poudre", Proc. of "Nouveaux Matériaux et Nouvelles Méthodes en Métallurgie des Poudres" Conf., Paris, France, 14-16 March, 1988, S.F.M., Paris, (1988)D3.
- M. JEANDIN, J.P. TROTTIER, J.L. KOUTNY and Y. BIENVENU, "A Two-Stage Compaction Process for Superalloy Powders", in "New Perspectives in Powder Metallurgy", K.K. Kulkarni ed., MPIF, Princeton, NJ, U.S.A., 8(1988)49.
- D. FAYEULLE, M. JEANDIN and R. MORBIOLI, "Electrophoresis Applied to Metallic Particles", Proc. of the "12th World Congress on Surface Finishing", Paris, France, 4-7 Oct., 1988, A.I.T.E., Paris, France, (1988)139.
- D. ALBERT, M. JEANDIN, R. MARTINOU, P. LECHERVY and D. VARELA, "Laser Treatment of Plasma-Sprayed Ceramic Coatings", Proc. of the "4th Int. Colloquium on Welding and Melting by Electron and laser Beams", Cannes, France, 26-30 Sept., 1988, M. Contré et al. eds, Edition DOC/CEN Saclay, France, 2(1988)663.
- P. FORGET, M. JEANDIN, P. LECHERVY and D. VARELA, "Laser Drilling of a Superalloy Coated with Ceramic", Proc. of the "6th Int. Symp. on Superalloys", Seven Springs, U.S.A., 18-22 Sept., 1988, D.N. Duhl et al. eds., The Met. Soc. of AIME, Warrendale, Pa., U.S.A., (1988)553.
- D. FAYEULLE and M. JEANDIN, "Influence de la Rugosité du Substrat sur les Propriétés de Dépôts Projétés à Chaud", Contribution to "Journée Nationale sur la Projection Plasma", Paris, France, 7 June, 1988, I.I.T.T.-E.N.S.M.P., Paris, France.
- P. FORGET, M. JEANDIN, P. LECHERVY and D. VARELA, "Laser Drilling. Application to a Ceramic-Coated Alloy", **Materials and Manufacturing Processes** 4(1989)263.
- C. SAINTE-CATHERINE and M. JEANDIN, "Laser Cladding of Astroloy on Alloy 718", Proc. of the Int. Symp. on "Superalloy 718, Metallurgy and Applications", Pittsburgh, Pa., U.S.A., 11-14 June, 1989, E.A. Loria et al. eds., TMS, Warrendale, PA., U.S.A., (1989)479.
- M. JEANDIN, "Traitements par Laser et Faisceaux d'Electrons : Traitements d'Al, Cu et leurs alliages", **Matériaux et Techniques** n° 11-12(1989)15.
- F. GRILLON, D. FAYEULLE and M. JEANDIN, "Illustration des Etapes de Traitement et de l'Analyse d'Images Appliquée à l'Etude de l'Homogénéité de Dépôts de Poudres", Proc. of "Traitement et Analyse d'Images en Microscopie à Balayage et Microanalyse X", Conf., Paris, France, 1-2 Dec., 1988, A.N.R.T., Paris, France, (1990)M.
- T. MARCELO, M.H. CARVALHO, M. CARVALHINHOS, J.P. HENON and M. JEANDIN, "Gas Species in Al 2014/SiC MMC Spray Co-Deposited and Powder Extusions", Proc. of the "7th Int. Conf. on Composite Materials", Guangzhou, China, 22-24 Nov., 1989, Wu Yunshu et al. eds., Pergamon Press, New York, U.S.A., 1(1990)497.
- F. BARBALAT, C. BLAIN, P. LUQUET, T.C. LU and M. JEANDIN, "Study of Plasma-Sprayed Graded W-Cu Composites Using Glow Discharge Spectrometry Compared to Electron Probe and Quantitative Image Analyses", Proc. of "EUROMAT '89" Conf., Aachen, F.R.G., 22-24 Nov., 1989, H.E. Exner et al. eds., Deutsche Gesellschaft für Metallkunde e.V., Oberursel, F.R.G., 1(1990)267.
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d'Echantillons Traités en Four à Gradient de Température", Proc. of "Controlling the Properties of P/M Parts through their Microstructure" Conf., Paris, France, 19-21 March, 1990, S.F.M., Paris, France, (1990)14.

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- J. BOLTON, M. JEANDIN and C. JOUANNY-TRESY, "Mechanisms of Sintering in High Speed Steels with Copper Phosphorus Alloying Additions" Proc. of "P/M'90" Conf., Wembley, U.K., 2-6 July 1990, The Institute of Metals Pub., London, U.K., 2(1990)265.
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- M. JEANDIN, "Processing and Microstructural Studies of P/M and Plasma-Sprayed Gradient Materials", Proc. of "Werkstoffe für die Bedürfnisse Von Morgen" Conf. Bern, Switz., 28-29 Nov., 1990, V. Franzen et al. eds., Technische Rundschau Publ., Bern, Switz., (1990)46.
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