

HISTORICAL METALLURGY NOTES

A Compendium of Articles¹ and Book Reviews

Prepared by *Fathi Habashi, Fran Ballard², and Ann Brunet*

¹ Articles marked by an asterisk appeared in "All That Glitters" edited by *M.L. Wayman* in 1989, published by Canadian Institute of Mining, Metallurgy, and Petroleum.

² Retired July 2000

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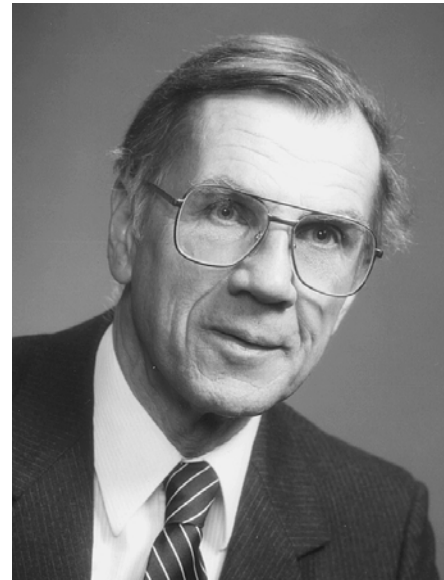
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The Historical Metallurgy Committee was founded in 1978 during the mandate of the then President Peter Tarasoff and on his initiative, to provide a forum for the Metallurgical Society members interested in the history of metallurgy and to promote the recording of Canadian achievement. At that time Tarasoff was Director of Noranda Technology Center at Pointe Claire, Quebec.

One of the first initiatives of the Committee was to sponsor a section in the *CIM Bulletin* entitled Historical Metallurgy Notes. In this section original research on the history of Canadian metallurgical installation, anniversaries of certain metallurgical events, history of chemistry and metallurgy in the great empires, biographies and obituaries of distinguished metallurgists and mining engineers, and book reviews, have been published. In 1989 a compilation of selected articles from the first ten years was published as a book under the title *All That Glitters: Readings in Historical Metallurgy*. The volume of 200 pages contained 26 articles directly related to Canadian metallurgical history and 17 articles of general interest. The Historical Metallurgy Committee holds its meeting during the Annual Conference of Metallurgy with a luncheon and an invited speaker. Contacts have been established with many organizations involved in the history of technology and metallurgy. For example:

- The Historical Metallurgy Society, London, England.
- Chemical Heritage Foundation in the United States, Philadelphia, Pennsylvania.
- Canadian Science and Technology Historical Association, Kingston, Ontario.
- The Minerals, Metals, and Materials Society -AIME in Warrendale, Pennsylvania
- Canadian Institute of Chemistry, Ottawa

- The Canadian Industrial Archeology Society, Ottawa
- The Engineering Institute of Canada, Ottawa
- History of Chemistry Division of the American Chemical Society, Washington, D.C.
- Das Deutsche Museum, Munich, Germany
- Institute for the History of Arabic Science, Aleppo, Syria
- The Museum Library, Miskolc, Hungary
- International Union of History and Philosophy of Science, Liège, Belgium
- Académie Internationale de l'Histoire des Sciences, Paris
- Institut pour l'histoire de l'aluminium, Paris

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- F. Habashi, "The Historical Metallurgy Committee of the Canadian Institute of Mining, Metallurgy, and Petroleum", *Working Paper* 4/1997, pp. 18-28, Engineering Institute of Canada, Ottawa 1997.
- F. Habashi, "Twenty Years Historical Metallurgy Committee", *CIM Bulletin* January 1999
- F. Habashi, *Annual Reports of the Historical Metallurgy Committee*.
- F. Habashi and F. Ballard, *Compendium of Articles*, Historical Metallurgy Committee.
- M.L. Wayman, ed. *All that Glitters: Readings in Historical Metallurgy*, The Metallurgical Society of the Canadian Institute of Mining and Metallurgy, Montreal 1989.

**Your contribution to the
Historical Metallurgy Notes is welcome**

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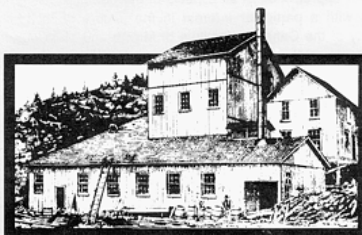
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ALL THAT GLITTERS

edited by:
Michael L. Wayman



READINGS IN
HISTORICAL
METALLURGY



Part I - ARTICLES

	CIM Bulletin Reference	Title	Author
	Vol. 72, No. 801, pp. 142, Jan. 1979	Formation of METSOC Historical Metallurgy Committee	Anonymous
	Vol. 72, No. 811, pp. 112-113, Nov. 1979	Historical metallurgy at the Sudbury Conference of Metallurgists Historical Metallurgy Committee maps another year of activities	P.J. Mackey, Laurentian University, Sudbury, ON. Anonymous
	Vol. 72, No. 812, p. 99, Dec. 1979	Historical metallurgy films available	J.E. Dutrizac, CANMET, Ottawa
	Vol. 73, No. 813, pp. 143-144, Jan. 1980	The birth of metallography -- the work of Henry Clifton Sorby (1826-1908)	D.A. Hardwick, Carnegie-Mellon Univ., Pittsburgh, PA. and W.M. Williams, McGill University, Montreal, Quebec
	Vol. 73, No. 814, pp. 103-104, Feb. 1980	The early history of iron in Canada	Arthur D. Dunn, Ottawa
	Vol. 73, No. 815, pp. 186-192, Mar. 1980	Directory of Canadian metallurgical mining museums	Bertrand Robinson, Hillcroft House, Port Hope, ON.
	Vol. 73, No. 816, pp. 123, Apr. 1980	The B.O.F. in Canada	Peter Stubbs, Dominion Foundries & Steel Ltd, Hamilton, ON.
*	Vol. 73, No. 817, pp. 129-130, May 1980	The first copper smelter in Canada	
	Vol. 73, No. 818, pp. 123-125, June 1980	Ironbridge, birthplace of the Industrial revolution	Peter Stubbs, Dofasco, Hamilton, ON. and Steward B. Smith, Ironbridge Gorge Museum Trust
	Vol. 73, No. 819, pp. 139-140, July 1980	El Arte de los Metales	Saul J. Escalera, Sherex Chemical Co., Dublin, OH
*	Vol. 73, No. 820, pp. 133-136, Aug. 1980	The founding of the Canadian zinc industry	J.E. Dutrizac, CANMET, Ottawa
*	Vol. 73, No. 821, pp. 120-122, Sep. 1980	Old iron nails	Ursula M. Franklin, University of Toronto
	Vol. 73, No. 822, pp. 114-118, Oct. 1980	The history of autogenous grinding	Bertrand Robinson, Hillcroft House, Port Hope, ON.
	Vol. 73, No. 823, pp. 189-190, Nov. 1980	Cominco Wing -- Rossland Mining Museum Iron and Steel Gallery -- Science Museum, London, .K. An Historical Metallurgy Committee newsletter	Anonymous
*	Vol. 73, No. 824, pp. 168-170, Dec. 1980	The smelting industry in the Lower Swansea Valley of South Wales -- a brief history	P.J. Mackey, Centre de Recherche, Noranda, Pointe Claire, Quebec

	Vol. 74, No. 825, pp. 139-145, Jan. 1981	Films of metallurgical interest	J.E. Dutrizac, CANMET and A. Bernolak, CANMET, Ottawa
	Vol. 74, No. 826, pp. 107-114, Feb. 1981	Films of metallurgical interest	J.E. Dutrizac, CANMET and A. Bernolak, CANMET, Ottawa
	Vol. 74, No. 827, pp. 191-193, Mar. 1981	Dr. James Douglas : A quiet Canadian	Elsie Kossatz, Laurentian University, Sudbury, ON.
	Vol. 74, No. 828, pp. 124-126, Apr. 1981	Marmora Iron Works - - a report of progress	Arthur D. Dunn, Ottawa
	Vol. 74, No. 829, pp. 141-142, May 1981	In search of history (1) - - the Trent River ore cars	Arthur D. Dunn, Ottawa
	Vol. 74, No. 830, pp. 113-114, June 1981	In search of history (2) - - Henry Cort	Anonymous
	Vol. 74, No. 831, pp. 92-94, July 1981	The Perth Museum still has Dr. James Wilson's collection of minerals. Were there early ironworkers in Western Canada ? Reader offers more information on Swansea Valley	Anonymous C.F. Harris, Imperial Smelting Processes Ltd, Bristol, United Kingdom
*	Vol. 74, No. 832, pp. 120-122, Aug. 1981	"Somewhere in Eastern Canada..." a history of Canadian Copper Refiners	J.H. Schloen, Montreal
	Vol. 74, No. 833, pp. 117-121, Sep. 1981	Electroplating the platinum metals : An historical review of the early researches The last arc furnace in Canada ?	Peta D. Buchanan, Imperial College, London Arthur D. Dunn, Ottawa
	Vol. 74, No. 834, pp. 98-102, Oct. 1981	A brief history of the miner's safety lamp "A Canadian Research Heritage" Tour of historical sites in Britain	Anonymous Anonymous
	Vol. 74, No. 835, pp. 133-134, Nov. 1981	Gold! Gold! Gold! Tour of historical sites in Britain	Arthur D. Dunn, Ottawa
	Vol. 74, No. 836, pp. 114-118, Dec. 1981	The workshopful company of blacksmiths The Truck Act The history of autogenous grinding "A Canadian Research Heritage"	Arthur D. Dunn, Ottawa Arthur D. Dunn, Ottawa Bertrand Robinson, Hillcroft House, Port Hope, ON. Arthur D. Dunn, Ottawa

	Vol. 75, No. 837, pp. 99-100, Jan. 1982	In search of history (3) - - North American's first ironworkers?	Anonymous
	Vol. 75, No. 838, pp. 151-155, Feb. 1982	Chemistry in New France List of selected chemistry books at the library of the Quebec Seminary	Fathi Habashi, Université Laval, Quebec
*	Vol. 75, No. 839, pp. 227-232, Mar. 1982	Metallurgical developments at Deloro, Ontario : 1868-1919	Roy T. Towles, Trent University
*	Vol. 75, No. 840, pp. 157-164, Apr. 1982	Manganese and its importance to nineteenth century metallurgy Is one of our industrial monuments being threatened?	W.M. Williams, McGill University, Montreal Arthur D. Dunn, Ottawa
*	Vol. 75, No. 841, pp. 111-115, May 1982	Roman lead plumbing : did it really contribute to the decline and fall of the Empire ?	J.E. Dutrizac, J.B. O'Reilly and R.J.C. MacDonald, CANMET, Ottawa
	Vol. 75, No. 842, pp. 133-138, June 1982	³ Chemistry and metallurgy in New Spain and the Spanish South American colonies	Fathi Habashi, Université Laval, Quebec
	Vol. 75, No. 843, pp. 149-153, July 1982	Glossary of some terms used in the Cornish mining industry Members of the Historical Metallurgical Committee tour early metalworking site	John Seton-Ham, Cornwall, England and Bertram Robinson, Ontario Phillip J. Mackey
	Vol. 75, No. 844, pp. 145-154, Aug. 1982	Chemistry and metallurgy in Imperial Russia (1713-1917)	Fathi Habashi, Université Laval, Quebec
*	Vol. 75, No. 845, pp. 163-170, Sep. 1982	Edward Haycock and his Gatineau mine	D.D. Hogarth, University of Ottawa
*	Vol. 75, No. 846, pp. 125-126, Oct. 1982	Early Nova Scotia gold mining	J. Hartlan, Waverley, NS.
*	Vol. 75, No. 847, pp. 112-113, Nov. 1982	Preserving the historical record of Canadian mining and metallurgy. Why bother ?	Norman R. Ball, National Museum of Science and Technology, Ottawa
	Vol. 75, No. 848, pp. 118-119, Dec. 1982	Does the history of Canadian mining and metallurgy need to be a money-losing proposition ?	Norman R. Ball, National Museum of Science and Technology, Ottawa
*	Vol. 76, No. 849, pp. 132-135, Jan. 1983	Ironworking in Upper Canada : Charles Hayes and the Marmora Works	Rita Michael, Hamilton, ON.
*	Vol. 76, No. 850, pp. 99-101, Feb. 1983	The end of horizontal zinc retorting in the United States	J.E. Dutrizac, CANMET, Ottawa
	Vol. 76, No. 851, pp. 170-174, Mar. 1983	Antimony : a chronology - - about 4000 BC to 1982	F.R. Morral, Columbus, OH
	Vol. 76, No. 852, pp. 103-106, Apr. 1983	John George Miller (1841-1885) : Pioneer Quebec and Puerto Rican miner	Donald D. Hogarth, University of Ottawa

³ Translated in Spanish, Ingenieria Univ. Atacama 1 (1), 5-11 (1986)

*	Vol. 76, No. 853, pp. 75-80, May 1983	Technological changes at Les Forges du Saint Maurice, Quebec, 1729-1883	André Bérubé, Parks Canada, Sainte Foy, Quebec
*	Vol. 76, No. 853, pp. 81-83, May 1983	The Woodstock Iron Works Carleton County, New Brunswick	R.R. Potter, Fredericton, NB.
*	Vol. 76, No. 853, pp. 84-49, May 1983	Nineteenth century Nova Scotia iron works	C. Andreae, Historical Research Ltd, Parkhill, ON.
	Vol. 76, No. 854, pp. 75-84, June 1983	The Hull iron range : 1801-1977	D.D. Hogarth, University of Ottawa
	Vol. 76, No. 854, pp. 85-59, June 1983	The iron industry of northern New York	Richard S. Allen, Albany, NY.
	Vol. 76, No. 854, pp. 90-101, June 1983	A survey of iron and steel making sites in the Tyne-Wear area of the United Kingdom	R.F. Tylecote, The Historical Metallurgy Society, United Kingdom
*	Vol. 76, No. 855, pp. 71-76, 85-91, July 1983	The Grantham Iron Works	David J. McDougall, Concordia University, Montreal
*	Vol. 76, No. 855, pp. 77-81, July 1983	Discovery and technological change : the origins of steelmaking at Sydney, NS.	Kris Inwood, University of Guelph and University of Toronto
*	Vol. 76, No. 855, pp. 86-91, July 1983	Cast iron in late medieval Europe : a re-examination	Bert S. Hall, University of Toronto
*	Vol. 76, No. 856, pp. 86-89, Aug. 1983	Nickel smelting at Copper Cliff: the first fifty years	J. Matousek, Tollbeck International, Eaglewood, Colorado
	Vol. 76, No. 857, pp. 93-97, Sep. 1983	A history of pipe-making in Western Canada	Albert Hanson, retired from Hanson Materials Engineering Ltd, Edmonton, AB.
	Vol. 76, No. 858, pp. 84-88, Oct. 1983	Copper : the British contribution	Richard Chadwick, Edgbaston, Birmingham, England
*	Vol. 76, No. 859, pp. 78-82, Nov. 1983	Man's first use of jarosite : the pre-Roman mining-metallurgical operations at Rio Tinto, Spain	J.E. Dutrizac, J.L. Jambor, J.B. O'Reilly, CANMET, Ottawa
	Vol. 76, No. 860, pp. 88-91, Dec. 1983	Juan José D'Elhuyar, discoverer of tungsten	Joseph A. Schufle, New Mexico Highlands University, Las Vegas, NM.
	Vol. 77, No. 861, pp. 79-85, Jan. 1984	Chemistry and metallurgy in the Swedish Empire - - (1809-1905)	Fathi Habashi, Laval University, Quebec
	Vol. 77, No. 862, pp. 72-75, Feb. 1984	Manganese - - a chronology and bibliography	F.R. Morral, Columbus, OH.
*	Vol. 77, No. 863, pp. 110-114, Mar. 1984	Brass making in medieval western Europe	Sandra K. Zacharias, Vancouver, BC.
	Vol. 77, No. 864, pp. 107-109, Apr. 1984	Organizations and periodicals -- historical and archaeological metallurgy	Anonymous
	Vol. 77, No. 865, pp. 80-83, May 1984	Canadian mining and metallurgical events - - 1604-1929	Anonymous
*	Vol. 77, No. 866, pp. 72-76, June 1984	Technical investigations of iron-working remains from the French Jesuit missions of Sainte Marie among the Hurons (1639-1649)	Sandra K. Zacharias, Vancouver, BC. James R. Hunter, Midland, ON., and Ursula M. Franklin, University of Toronto
*	Vol. 77, No. 867, pp. 70-73, July 1984	The Farga Catalana	P. Molera, University of Barcelona, Spain

	Vol. 77, No. 868, pp. 74-76, Aug. 1984	Britannia Mines concentrator : Canada's largest museum artifact	Marilyn Mullan, British Columbia Museum of Mining, Dianne Newell, University of British Columbia
*	Vol. 77, No. 869, pp. 69-73, Sep. 1984	The origins of zinc and brass	J.E. Dutrizac and J.B. O'Reilly, CANMET, EMR, Ottawa
*	Vol. 77, No. 870, pp. 88-91, Oct. 1984	The early history of the electrolytic zinc process	D.J. MacKinnon, CANMET, Ottawa
	Vol. 77, No. 871, pp. 80-85, Nov. 1984	Mercury - - A historical review	F.R. Morral, Columbus, OH.
	Vol. 77, No. 872, pp. 88-95, Dec. 1984	Chemistry and metallurgy in the German Empire 1740-1918	Fathi Habashi, Université Laval, Quebec
	Vol. 78, No. 873, pp. 75-77, Jan. 1985	Chemistry and metallurgy in the Austrian Empire - - 1740-1918	Fathi Habashi, Université Laval, Quebec
	Vol. 78, No. 874, pp. 84-88, Feb. 1985	The processing of gold ores in the ancient world	John F. Healy, London, England
	Vol. 78, No. 875, pp. 135-137, Mar. 1985	Goat path discovery unlocks secrets of medieval zinc	P.T. Craddock, London, England
*	Vol. 78, No. 876, pp. 75-76, Apr. 1985	The first cyanide leaching plants in Canada	J.E. Dutrizac and J.B. Sunstrum, CANMET, Ottawa
	Vol. 78, No. 877, pp. 91-93, May 1985	Ida Noddack (1896-1978)	Fathi Habashi, Université Laval, Quebec
	Vol. 78, No. 878, pp. 103-104, June 1985	The Steirische Eisenstrasse	Renate Metlar, Government of Styria, Austria
	Vol. 78, No. 879, pp. 83-85, July 1985	Tin. A mini-history and bibliography	F.R. Morral, Columbus, OH.
*	Vol. 78, No. 880, pp. 67-69, Aug. 1985	Native copper : humanity's introduction to metallurgy ? Part 1 : occurrence, formation and prehistoric mining	Michael L. Wayman, University of Alberta, Edmonton
	Vol. 78, No. 880, pp. 70-71, Aug. 1985	Further observations on Canada's first cyanide leaching plant	J.E. Dutrizac and J.B. O'Reilly, CANMET, Ottawa
*	Vol. 78, No. 881, pp. 75-77, Sep. 1985	Native Copper : humanity's introduction to metallurgy ? Part 2 : metallurgical characteristics and utilization	Michael L. Wayman, University of Alberta, Edmonton
	Vol. 78, No. 882, pp. 75-77, Oct. 1985	The Historical Metallurgy Society and the history and prehistory of metallurgy in Europe	R.F. Tylecote, University of London
*	Vol. 78, No. 883, pp. 75-79, Nov. 1985	Frobisher's gold on Kodlunarn Island - - fact or fable ?	Donald D. Hogarth, John Loop, Ottawa, Ontario, and W.A. Gibbins, Yellowknife, N.W.T.
	Vol. 78, No. 884, pp. 79-80, Dec. 1985	Mining and metallurgical history at the 1985 CIM Conference of Metallurgists	Anonymous
*	Vol. 79, No. 885, pp. 75-79, Jan. 1986	Zinc and brass in ancient India	H.V. Paliwal, L.K. Gurjar, and P.T. Craddock
	Vol. 79, No. 886, pp. 90-91, Feb. 1986	A chronology of bismuth since the thirteenth century	F.R. Morall, Columbus, OH.
	Vol. 79, No. 888, pp. 69-72, Apr. 1986	The Peak District Mining Museum - - Matlock Bath, Derbyshire	Lynn Willies and Michael L. Wayman
	Vol. 79, No. 889, pp. 86-88, May 1986	Metals and alloys in musical instruments	F.R. Morall, Columbus, OH.

	Vol. 79, No. 890, pp. 97-101, June 1986	Chronology and bibliography on the use of metals and alloys in musical instruments	F.R. Morral, Columbus, OH.
*	Vol. 79, No. 891, pp. 113-117, July 1986	Dotaku : an example of metallurgy in prehistoric Japan	K.T. Aust, University of Toronto
	Vol. 79, No. 892, pp. 98-101, Aug. 1986	Hall and Héroult : the men and their invention	Norman C. Craig, Oberlin College and Christian M. Bickert, Pechiney Corporation
*	Vol. 79, No. 893, pp. 94-97, Sep. 1986	A historical sketch of the Canadian steel industry	W.M. Williams, McGill University, Montreal
	Vol. 79, No. 894, pp. 74-76, Oct. 1986	Rossland, British Columbia : its mining history and its museum complex	Compiled from information provided by the Rossland Historical Museum Association
*	Vol. 79, No. 895, pp. 72-75, Nov. 1986	The Hall-Héroult process in Canada	F. McGravie, W.W. Robertson and S.T. Solinski, Alcan Smelters and Chemicals Ltd.
	Vol. 79, No. 896, pp. 83-86, Dec. 1986	The twentieth century magic metal - - aluminum	F.R. Morral, Columbus, OH.
	Vol. 80, No. 897, pp. 65-66, Jan. 1987	The prehistory of metallurgy in the British Isles	Book review : by M.L. Wayman, University of Alberta, Edmonton
	Vol. 80, No. 898, pp. 80-82, Feb. 1987	Historical metallurgy publications	Michael L. Wayman, University of Alberta
*	Vol. 80, No. 899, pp. 147-150, Mar. 1987	On the early use of iron in the Arctic, Part I : meteoritic iron	Michael L. Wayman, University of Alberta
	Vol. 80, No. 900, pp. 64-66, Apr. 1987	On the early use of iron in the Arctic, Part 2 : Telluric Iron	Michael L. Wayman, University of Alberta
	Vol. 80, No. 901, pp. 88-90, May 1987	On the early use of iron in the Arctic, Part 3 : Smelted (wrought) iron	Michael L. Wayman, University of Alberta
	Vol. 80, No. 903, pp. 96-98, July 1987	Fulminating gold and silver	K.G. Tan, CANMET, Ottawa
*	Vol. 80, No. 905, pp. 108-114, Sep. 1987	#One hundred years of cyanidation	Fathi Habashi, Université Laval, Québec
*	Vol. 80, No. 907, pp. 90-93, Nov. 1987	The historical development of copper smelting in British Columbia	S.A. Bradford, University of Alberta
*	Vol. 81, No. 909, pp. 70-76, Jan. 1988	° A hundred years of the Bayer Process for alumina production	Fathi Habashi, Université Laval, Québec
	Vol. 81, No. 911, pp. 157-161, Mar. 1988	Still further observations on Canada's first cyanide leaching plant : early Ontario operations	J.E. Dutrizac, CANMET, Ottawa

Reprinted in *Arab Min. J.* **10** (1,2), 41-51 (1990) with Arabic translation pp. 21-29

° Reprinted in *Arab Min. J.* **8** (3,4), 61-69 (1988) with Arabic translation pp. 24-28. Also in *Light Metals* 1988, pp. 3-11, editor L.G. Boxall, The Metallurgical Society, AIME, Warrendale, Pennsylvania.

	Vol. 81, No. 912, pp. 74-78, Apr. 1988	Britannia Mines (1888-1988) - - Mill now a national historic site	Marilyn Mullan, The University of British Columbia
	Vol. 81, No. 913, pp. 62-66, May 1988	Deutsches Bergbau-Museum (the German Mining Museum), Bochum, West Germany	Werner Kroker, Museum Curator, Bochum
	Vol. 81, No. 914, pp. 107-108, June 1988	Ramblings on historical metallurgical publications	Michael L. Wayman, University of Alberta
	Vol. 81, No. 915, pp. 101-102, July 1988	Metallurgy at the 1988 International Archaeometry Conference	Michael L. Wayman, University of Alberta
	Vol. 81, No. 917, pp. 98-102, Sep. 1988	Chemistry and metallurgy in the Belgian Empire	Fathi Habashi, Université Laval, Québec
	Vol. 81, No. 918, pp. 84-93, Oct. 1988	Pioneer graphite mines on the north side of the Ottawa River	D.D. Hogarth, University of Ottawa
	Vol. 81, No. 919, pp. 99-102, Nov. 1988	The founding of Métallurgie Hoboken-Overpelt : a Belgian company in good health after 100 years of production	Pierre Lenoir, Metallurgie Hoboken-Overpelt, Belgium
*	Vol. 81, No. 920, pp. 75-77, Dec. 1988	Early Canadian lead smelters	J.E. Dutrizac and J.B. Sunstrum, CANMET, Ottawa
	Vol. 82, No. 921, pp. 85-86, Jan. 1989	The iron pillar of Delhi	Fathi Habashi, Université Laval, Québec
	Vol. 82, No. 922, pp. 84, Feb. 1989	The Nelson Museum features early British Columbia mining and metallurgy	Helen Lee and Shawn Lamb, Kootenay Museum Associations
*	Vol. 82, No. 923, pp. 151-159, Mar. 1989	The Tredegar iron works of Richmond, Virginia	R.E. Johnson, Richmond, VI
	Vol. 82, No. 924, pp. 79-88, Apr. 1989	Chemistry and metallurgy in the French Empire	Fathi Habashi, Université Laval, Québec
*	Vol. 82, No. 925, pp. 93-96, May 1989	Falconbridge Ltd. - - 60 years in a century	Gerald A. Crawford, Mississauga, Ontario
*	Vol. 82, No. 926, pp. 136-141, June 1989	The Development of the Sherritt ammonia pressure leach process	D.G.E. Kerfoot, Sherritt Gordon, Fort Saskatchewan, Alberta
*	Vol. 82, No. 927, pp. 65-68, July 1989	The early history of electrorefining in Canada	D.J. MacKinnon, CANMET, Ottawa
*	Vol. 82, No. 928, pp. 77-80, Aug. 1989	An overview of the early history of the metallurgical industry in Canada	P. Tarassoff, Noranda Inc. Pointe Claire, Québec
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	Vol. 82, No. 930, pp. 86-89, Oct. 1989	Silver coinage debasement in the Roman Empire of the first half of the third century	Bruce R. Brace, McMaster University
	Vol. 82, No. 931, pp. 80-84, Nov. 1989	Fiftieth anniversary of uranium fission - - contributions of two women scientists	Fathi Habashi, Université Laval, Québec
	Vol. 82, No. 932, pp. 90-92, Dec. 1989	Carl Wilhelm Sjøerberg (1876-1955)	Ivo Toromanoff, Lulea University of Technology and Fathi Habashi, Université Laval, Québec
	Vol. 83, No. 933, pp. 93-95, Jan. 1990	Observations on an old broad axe - - an example of steeling	W.M. Williams, McGill University
	Vol. 83, No. 934, pp. 111-114, Feb. 1990	Gérard Letendre (1906-1988) and his time	Fathi Habashi, Université Laval, Québec

Vol. 83, No. 935, pp. 150-154, Mar. 1990	A mini-history of the Rio Tinto (Spain) region	F.R. Morral, Columbus, OH.
Vol. 83, No. 936, pp. 116-117, Apr. 1990	Note from the Chairman of the Historical Metallurgy Committee All that Glitters : Readings in Historical Metallurgy	Anonymous
Vol. 83, No. 937, pp. 98-99, May 1990	The mining book of Schwaz of 1556	Fathi Habashi, Université Laval, Québec
Vol. 83, No. 939, pp. 121-123, July 1990	Recent developments in archaeometallurgy	M.L. Wayman, University of Alberta
Vol. 83, No. 940, pp. 110-115, Aug. 1990	Temperature measurements in olden tymes	J.W. Matousek, Kilborn Management Services
Vol. 83, No. 941, pp. 102-110, Sep. 1990	Chemistry & metallurgy in the British Empire : Part I	Fathi Habashi, Université Laval, Québec
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Vol. 83, No. 943, pp. 97-101, Nov. 1990	A history of the rare earth elements	F.R. Morral, Columbus, OH.
Vol. 83, No. 944, pp. 66-67, Dec. 1990	Ytterby - - an historical landmark	Mamoun Muhammed, Royal Institute of Technology, Stockholm, Sweden and Fathi Habashi, Université Laval, Québec
Vol. 84, No. 945, pp. 95-97, Jan. 1991	The ancient metal symbols	Gotthard Björling, Royal Institute of Technology, Stockholm, Sweden
Vol. 84, No. 946, pp. 104-109, Feb. 1991	Chemistry & metallurgy in the American Empire : Part 1	Fathi Habashi, Université Laval, Québec
Vol. 84, No. 947, pp. 155-160, Mar. 1991	Chemistry and metallurgy in the American Empire : Part 2	Fathi Habashi, Université Laval, Québec
Vol. 84, No. 948, pp. 57-59, Apr. 1991	The founding of the Norwegian zinc industry	J.E. Dutrizac, CANMET, Ottawa
Vol. 84, No. 949, pp. 75-77, May 1991	Charles Robb Masson - - chemical metallurgist (1922-1988)	S.G. Whiteway and W.F. Caley, Technical University of Nova Scotia
Vol. 84, No. 950, pp. 114-117, June 1991	Chemistry and metallurgy in the Egyptian Empire	Fathi Habashi, Université Laval, Québec
Vol. 84, No. 951, pp. 74-77, July 1991	A short history of the Empire Mine : Part 1	William J. Brown, Nordland, Washington
Vol. 84, No. 952, pp. 81-86, Aug. 1991	A short history of the Empire Mine : Part 2	William J. Brown, Nordland, Washington
Vol. 84, No. 953, pp. 68-70, Sep. 1991	Superalloys - - mini history and bibliography	F.R. Morral, Columbus, OH.
Vol. 84, No. 954, pp. 81-88, Oct. 1991	History in the metallurgy curriculum	Fathi Habashi, Université Laval, Québec
Vol. 84, No. 955, pp. 85-90, Nov.-Dec. 1991	The imperial mining books of 1764	Fathi Habashi, Université Laval, Québec
Vol. 85, No. 956, pp. 79-83, Jan. 1992	Mining, metallurgy, and mythology	Fathi Habashi, Université Laval, Québec
Vol. 85, No. 957, pp. 79-80, Feb. 1992	The Museum Library of the Schemnitz Mining Academy in Miskolc, Hungary	Fathi Habashi, Université Laval, Québec
Vol. 85, No. 959, pp. 96-97, Apr. 1992	The Quarrying of Grindstone, by Johann Eingleigner	Fathi Habashi, Université Laval, Québec

Vol. 85, No. 959, p. 97, Apr. 1992	Early cyanide plants in British Columbia	Jeremy Mouat
Vol. 85, No. 960, pp. 89-90, May 1992	Poland's salt mine museum	Fathi Habashi and Stefan Planeta, Université Laval, Québec
Vol. 85, No. 961, pp. 73-75, June 1992	The Great Orme Bronze Age Mining Centre	A. Lewis, Great Orme Mines Limited, Llandudno, Gwynedd, Wales and M.L. Wayman, University of Alberta
Vol. 85, No. 962, pp. 128-133, July-Aug. 1992	The charcoal blast furnace at Normandale	J.E. Rehder, Toronto
Vol. 85, No. 963, pp. 76-82, Sep. 1992	Chemical metallurgy at the Halifax laboratory of the National Research Council : 1954-1986	S.G. Whiteway and W.F. Caley, Tech. University of Nova Scotia
Vol. 85, No. 964, pp. 98-101, Oct. 1992	Lead mining and smelting at Galetta, Ontario	Gordon Cooper, INCO
Vol. 85, No. 965, pp. 103-108, Nov.-Dec. 1992	Chemistry and metallurgy in the American Indian empires	Fathi Habashi, Université Laval, Québec
Vol. 86, No. 966, pp. 92-93, Jan. 1993	Copper converting - - an historical perspective	S.W. Marcuson, Copper Cliff, ON.
Vol. 86, No. 966, p. 97, Jan. 1993	A tribute to Cyril Stanley Smith (1903-1992), metallurgist, historian	Fathi Habashi, Université Laval, Québec
Vol. 86, No. 967, pp. 106-111, Feb. 1993	Iron in Iberia, a mini-history	F.R. Morral, Columbus, OH.
Vol. 86, No. 968, pp. 156-161, Mar. 1993	The changing technology of artillery manufacture	R.E. Johnson, Richmond, VI.
Vol. 86, No. 969, pp. 84-87, Apr. 1993	Metals in the Greek and Persian empires	Fathi Habashi, Université Laval, Québec
Vol. 86, No. 970, pp. 111-115, May 1993	Metals in the Middle Eastern and Eurasian civilizations	Fathi Habashi, Université Laval, Québec
Vol. 86, No. 971, pp. 47-54, June 1993	Design, materials and manufacture of axes for Upper Canadian settlers	Norman R. Ball, University of Waterloo, ON.
Vol. 86, No. 972, pp. 86-91, July-Aug. 1993	Silver processing in Spanish America. The Patio and the Buytron processes	Ronald D. Crozier, Ridgefield, CT.
Vol. 86, No. 973, pp. 68, Sep. 1993	Paulo Abib Andery (1922-1976), a distinguished Brazilian mining engineer	Laurindo de Salles Leal Filho, Arthur Pinto Chaves and Wildor Theodoro Hennies, Escola Politecnica, University of Sao Paulo, Brazil
Vol. 86, No. 975, pp. 57-63, Nov.-Dec. 1993	History of metallurgy in Finland: the Outokumpu story	Fathi Habashi, Université Laval, Québec
Vol. 87, No. 976, pp. 80-86, Jan. 1994	The discovery and industrialization of the rare earths - - Part 1	Fathi Habashi, Université Laval, Québec
Vol. 87, No. 977, pp. 71-76, Feb. 1994	The discovery and industrialization of the rare earths - - Part 2	Fathi Habashi, Université Laval, Québec
Vol. 87, No. 978, pp. 156-159, Mar. 1994	The art of converting at Flin Flon forty years ago	A. Dutton and S.W. Marcuson, INCO, Ontario Division

Vol. 87, No. 979, pp. 69-74, Apr. 1994	The discovery of metals. Part 1	Fathi Habashi, Université Laval, Québec
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Vol. 87, No. 981, p. 56, June 1994	Iron in the New World. A short chronology	F.R. Morral, Columbus, OH
Vol. 87, No. 982, pp. 87-95, July-Aug. 1994	Iron museums	Fathi Habashi, Université Laval, Québec
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Vol. 87, No. 984, pp. 93-96, Oct. 1994	The silver refinery ruins in Antofagasta, Chile	G. Coloma Alvarez and Fathi Habashi
Vol. 87, No. 985, pp. 94-101, Nov.-Dec. 1994	The development of mechanical roasters	J.W. Matousek, Kilborn International, Englewood, co.
Vol. 88, No. 986, pp. 60-61, Jan. 1995	Metallurgy in archeology	J.E. Rehder, Toronto
Vol. 88, No. 987, pp. 61-66, Feb. 1995	Aloys von Widmanstätten and the story of Meteorites	Fathi Habashi, Université Laval, Québec
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Vol. 88, No. 994, pp. 73-75, Oct. 1995	Journal of the Historical Metallurgy Society Abstracts”	Anonymous
Vol. 88, No. 995, pp. 97-105, Nov.-Dec. 1995	Fifty years atomic bombs	Fathi Habashi, Université Laval, Québec
Vol. 89, No. 997, pp. 73-74, Feb. 1996	Journal of the Historical Metallurgy Society Abstracts” Book Review	Anonymous
Vol. 89, No. 999, pp. 22-27, April 1996	The Metallurgical Society marks fiftieth anniversary	Fathi Habashi, Université Laval, Québec

Vol. 89, No.1000, pp. 85-93, May 1996	Metals money, and mints, Part 1	Fathi Habashi, Université Laval, Québec
Vol. 89, No. 1001, pp. 144-149, June 1996	Metals, money, and mints, Part 2	Fathi Haabshi, Université Laval, Québec
Vol. 89, No. 1004, pp. 76-82, Oct. 1996	The gold and silver refiners of Paris in the XVI th and XVII th centuries	Bernard Allaire, Bordeaux, France
Vol. 89, No. 1005, pp. 105-109, Nov.-Dec. 1996	The first international mineral processing conference in 1786	Fathi Habashi, Université Laval, Québec
Vol. 90, No. 1006, pp. 92-95, Jan. 1997	100 years of smelting at Trail British Columbia: 1896-1996	Richard H. Fish, Cominco, Trail
Vol. 90, No. 1007, pp. 121-122, Feb. 1997	Invar 100 years old	Fathi Habashi, Université Laval, Québec
Vol. 90, No. 1009, pp. 26-29, April 1997	The Osler library in Montreal	Fathi Habashi, Université Laval, Québec
Vol. 90, No. 1015, pp. 103-114, Nov.-Dec. 1997	The first schools of mines and their role in developing the mineral and material industries,Part I	Fathi Habashi, Université Laval, Québec
Vol. 91, No. 1016, pp. 96-102, Jan. 1998	The first schools of mines and their role in developing the mineral and metal industries, Part II	Fathi Habashi, Université Laval, Québec
Vol. 91, No. 1017, pp. 96-106, Feb. 1998	The first schools of mines and their role in developing the mineral and metal industries, Part III	Fathi Habashi, Université Laval, Québec
Vol. 91, No. 1018, pp. 231-234, Mar. 1998	Forty-five years – International Processing Congress	Fathi Habashi, Université Laval, Québec
Vol. 91, No. 1019, pp. 103-104, Apr. 1998	Canadian electric pig iron	John E. Gruzleski, MacGill University, Montreal
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Vol. 91, No. 1024, pp. 78-81, Oct. 1998	The possible use through antiquity of the carbothermic smelting process	J.E. Rehder, Toronto
Vol. 91, No. 1025, pp . 97-102, Nov.-Dec. 1998	Mining, metallurgy, and the church	Fathi Habashi, Université Laval, Québec
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Vol. 92, N0. 1029, pp. 83-85, Apr. 1999	Twenty years Historical Metallurgy Committee	Fathi Habashi, Université Laval, Québec
Vol. 92, No. 1030, pp. 81-85, May 1999	CMMI seventy five years	Fathi Habashi, Université Laval, Québec

Vol. 92, No. 1031, pp. 156, June 1999	The Institute for the History of Aluminum.	Fathi Habashi, Université Laval, Québec
Vol. 92, No. 1032, pp. 76-78, July-Aug. 1999	25 th Anniversary The Research Laboratory for Hydrothermal Chemistry	Fathi Habashi, Université Laval, Québec
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Vol. 93, No. 1041, pp. 152-154, June 2000	Conservation of European mining and metallurgical heritage. Part I	O. Putche Riart and L. Felipe Mazadiego Marinez
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Vol. 93, No. 1045, pp. Nov.-Dec. 2000	Chemistry and metallurgy in the Danish empire	Fathi Habashi, Université Laval, Québec
Vol. 95, No. 1052, pp. 82-88, Jan. 2002	History of minimills in steelmaking	John Stubbles, Consultant, Mason, Ohio, USA
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Vol. 95, No. 1063, pp. 108-111, Jul. 2002	The beginnings of mining education in the Far East.	Fathi Habashi, Université Laval, Québec
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Vol. 95, No. 1065, pp. 106-112, Oct. 2002	Five hundred years mercury mining at Idria.	Fathi Habashi, Université Laval, Québec
Vol. 95, No. 1066, pp. 102-1052, Nov./Dec. 2002	Beginning of the mass production of steel	Roy E. Johnson, formerly at Ethyl Corp., USA
Vol. 96, No. 1067, pp. 87-94, Jan. 2003	History of corrosion research.	Fathi Habashi, Université Laval, Québec
Vol. 96, No. 1068, pp. 69-72, Feb. 2003	Italian Renaissance in ferrous metallurgy.	M. Cavallini, University of Rome, Rome, Italy
Vol. 96, 1069, pp. 122-125, Mar. 2003	One hundred years of liquid air – Canadian contribution	Fathi Habashi, Université Laval, Québec
Vol. 96, 1071, pp. 76-81, May 2003	Gold and silver throughout history	James G. Watt, Antofagasta, Chile
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Vol. 96, 1073, pp. 84-88, Sep. 2003	A brief history of the Chilean nitrates industry.	James G. Watt, Antofagasta, Chile
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Vol. 97, 1076, pp.77-82, Jan. 2004	The social responsibility of scientists – Two historic lessons	Fathi Habashi, Université Laval, Québec
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Vol. 97, 1081, pp. 95-97, Jun. / Jul. 2004	Zoroaster and the theory of four elements	Fatima Belhadj, Université d'Oran Es-Sénia, Oran, Algeria
Vol. 97, 1082, pp. 61-64, Sep. 2004	Karl Josef Bayer and his time* - Part 1	Fathi Habashi, Université Laval, Québec
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Vol. 97, 1084, pp. 66-69, Nov. / Dec.. 2004	History of mining in Chile – Part 1	Armando Enrique Valenzuela Jara, Chilean Copper Commission, Santiago, Chile

Vol. 98, 1085, pp. 71-72, Jan. / Feb.. 2005	History of mining in Chile – Part 2	Armando Enrique Valenzuela Jara, Chilean Copper Commission, Santiago, Chile
Vol. 98, 1086, pp. 119-121, Mar. /Apr.. 2005	History of mining in Chile – Part 3	Armando Enrique Valenzuela Jara, Chilean Copper Commission, Santiago, Chile
Vol. 98, 1087, pp. 64-66, May 2005	History of mining in Chile – Part 4	Armando Enrique Valenzuela Jara, Chilean Copper Commission, Santiago, Chile
Vol. 98, 1088, pp. 81-83, Jun. / Jul. 2005	An illustrated history of metallurgy	Fathi Habashi, Université Laval, Québec
Vol. 98, 1087, pp. 61-63, Aug. 2005	Mining metallurgy & the industrial revolution – Part 1	Fathi Habashi, Université Laval, Québec
Vol. 98, 1089, pp. 80-82, Sep. / Oct. 2005	Mining metallurgy & the industrial revolution – Part 2	Fathi Habashi, Université Laval, Québec
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Vol. 1, 1, pp. 90-92, Feb. 2006	Mining history in Anatolia – Part 1	A. Akcil, Suleyman University, Isparta, Turkey
Vol. 1, 2, pp. 68-70, Mar. / Apr. 2006	Mining history in Anatolia – Part 2	A. Akcil, Suleyman University, Isparta, Turkey
Vol. 1, 3, pp. 101-103, May 2006	Mining history in Anatolia – Part 3	A. Akcil, Suleyman University, Isparta, Turkey
Vol. 1, 4, pp. 99-101, Jun. / Jul. 2006	Cementation of copper – the end of an era	Fathi Habashi, Université Laval, Québec
Vol. 1, 5, pp. 73-75, Aug. 2006	The beginning of the mining industry in Russia – Pt. 1	I. V. Toropitsyn, Astrakhan State University, Astrakhan, Russia
Vol. 1, 6, pp. 85-87, Sep. / Oct.. 2006	The beginning of the mining industry in Russia – Pt. 2	I. V. Toropitsyn, Astrakhan State University, Astrakhan, Russia
Vol. 1, 7, pp. 77-79, Nov. 2007	France and the industrial revolution – Part 1	Fathi Habashi, Université Laval, Québec
Vol. 2, 2, pp. 102-104, Nov. 2007	France and the industrial revolution – Part 2	Fathi Habashi, Université Laval, Québec
Vol. 2, 3, pp. 69-71, May 2007	Muslim mining in the Iberian Peninsula (Part II)	O.Puche Riart, L.F. Mazadiago Martinez and P. Kindelan Echevarria, Mining Engineering School, Universidad Politecnica de Madrid
Vol. 2, 4, pp. 87-88, Jun. / Jul. 2007	The Chilean Mill or Trapiche	James G. Watt, Comox, British Columbia
Vol. 2, 5, pp. 72-73, Aug. 2007	History of metal casting – Part 1	Fathi Habashi, Université Laval, Québec
Vol. 2, 6, pp. 95-97, Aug. 2007	History of metal casting – Part 2	Fathi Habashi, Université Laval, Québec
Vol. 2, 7, pp. 94-96, Nov. 2007	History of metal casting – Part 3	Fathi Habashi, Université Laval, Québec
Vol. 3, 1, pp. 108-109, Feb. 2008	Migration and movement of scholars – A study in the history of diffusion of knowledge: Part 1	Fathi Habashi, Université Laval, Québec
Vol. 3, 2, pp. 67-68, Mar. / Apr. 2008	Migration and movement of scholars – A study in the history of diffusion of knowledge: Part 2	Fathi Habashi, Université Laval, Québec

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Part II – BOOK REVIEWS

CIM Bulletin	Book	Reviewed by
March 1986, 79 (887), pp. 120-121	<i>Engineer's Witness</i>	D.E. Inwood
Jan. 1987, 80 (897), pp. 65-66	R.F. Tylecote, <i>The Prehistory of Metallurgy in the British Isles</i>	M.L. Wayman
May 1990, 83 (937), pp. 98-99	<i>The Mining Book of Schwaz of 1556</i>	F. Habashi
Nov/Dec 1991, 84 (955), pp. 85-90	<i>The Imperial Mining Books of 1764</i>	F. Habashi
Feb. 1992, 85 (957) p. 81	M. Sarudyova, <i>The Topography of Iron Works in Slovakia in the Nineteenth Century</i> L.W. Shemilt, editor, <i>Chemical Engineering in Canada. A Historical Perspective</i>	F. Habashi
April 1992, 85 (959), pp. 96-97	J. Eingleigner, <i>The Quarrying of Grindstone</i>	F. Habashi
June 1992, 85 (961), p. 138	M.L. Wayman et al., <i>Aspects of Early North American Metallurgy</i>	F. Habashi
Sept. 1992, 85 (963), pp. 76-77	R.F. Tylecote, <i>A History of Metallurgy</i>	M.L. Wayman
June 1993, 86 (971), p. 42	P. Morel, editor, <i>Histoire Technique de la production d'aluminium</i>	F. Habashi
Oct. 1994, 87 (984), p. 96	A.J. Wilson, <i>The Living Rock</i>	F. Habashi
April 1995, 88 (989), p. 60	A. Cowey, <i>Mining and Metallurgy in South Africa</i>	F. Habashi
May 1995, 88 (990), p. 58	Anonymous, <i>Dominion Apart: Reflections on the Culture of Science and Technology in Canada and Australia 1850-1945</i>	F. Habashi
June 1995, 88 (991), p. 36	Correction to above	F. Habashi
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Oct. 1995, 88 (994), pp. 74-75	D.D. Hogarth et al., <i>Martin Frobisher's Northwest Venture, 1576-1581 Mines, Minerals, Metallurgy</i> W.W. Fitzhugh and J.S. Olin, <i>Archeology of the Frobisher Voyages</i> R.B.V. Nicholls, editor, <i>Chemical Canada 1970-1995</i>	F. Habashi
Nov/Dec 1995, 88 (995), pp. 94-96	E. Thomàs I Morera, editor, <i>La farga catalana en al marc de l'arqueologia siderùrgia</i> L. Zsàmboki, editor, <i>Hungarian Mining</i> P. Mioche, <i>L'alumine à Gardanne de 1893 à nos jours</i>	F. Habashi
Jan. 1996, 89 (996) p. 72	J.M. Drew, <i>Mining People. A Century</i> C. Andreas and L. Trottier, editors, <i>National Reports. The Ninth International Conference on the Conservation of Industrial Heritage</i>	F. Habashi
Feb. 1996, 89 (997), p. 74	<i>Journal of the History of Arabic Science</i> P.C. Newman, <i>Dream & Rewards. The Barrick Story</i>	F. Habashi

Sept. 1996, 89 (1003), p. 47	K.J. Laidler, <i>The World of Physical Chemistry</i> G.W. Kramer, Berthold Schwarz <i>Chemie und Waffentechnik in 15. Jahrhundert</i> G.W. Kramer, <i>Der Fall Berthold Schwarz</i>	F. Habashi
Feb. 1997, 90 (1007), p. 123	M. Vallières, <i>Des Mines et des Hommes J. Mouat, Roaring Days</i>	F. Habashi
March 1997, 90 (1008), p. 164	J.F. Healy, <i>Miniere E Metallurgia Nel Mondo Greco to Romano</i>	F. Habashi
April 1997, 90 (1009), p. 31	B. Bendaude-Vincent and I. Stengers, <i>A History of Chemistry</i>	F. Habashi
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