

**I.A.**

Robert B. Puyear  
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September 14, 2007

**SPECIALTIES:**

Specialties include corrosion prevention and control, failure analysis and materials selection. Familiar with steels, stainless steels, nickel alloys, titanium, zirconium, niobium, tantalum, composites (e.g., FRP/RTP), plastics, coatings and linings.

**EDUCATION:**

BS ChE, MO School of Mines - 1954,

MS (Industrial Administration), Purdue University - 1967.

**CERTIFICATION/LICENSES:**

Professional Engineer: MO-EN017155, CA-Corrosion 183.

NACE International Corrosion Specialist P

**TECHNICAL SOCIETIES:**

NACE International, The Corrosion Society - President 1997-98.

ASM International (formerly American Society for Materials), Life Member

American Institute of Chemical Engineers

**PREVIOUS POSITIONS:**

Haynes Stellite Division of Union Carbide Corp. (1954-70); Leader of group that developed high performance materials for chemical and aerospace applications. Four patents for high-temperature coatings.

Monsanto (1970-91): Corrosion specialist, managed Mechanical and Materials Engineering Section - a group of technical specialists that served as in-house consultants throughout Monsanto.

Played a leadership role in the formation of the Materials Technology Institute of the Chemical Process Industries, Inc. (MTI). One of five people who nurtured the concept into a living organization (1975 to 1977). Formed this unique organization to conduct cost-effective studies of interest to many companies. Served on the Board of Directors from 1977 to 1991 and as Chairman from 1977 to 1979 and from 1986 to 1989. MTI Fellow.

**PUBLICATIONS/PRESENTATIONS:**

Over 30 publications and presentations related to corrosion control. Includes one book on materials selection for hydrocarbon and chemical plants.

## PUBLICATIONS OF ROBERT B. PUYEAR

## PARTIAL LIST

Corrosion Failure Mechanisms in Process Industries: A Compilation of Experiences, MTI Report R-4, Materials Technology Institute of the Chemical Process Industries, Inc., St. Louis, MO, 1997.

Case Histories: Improper Materials, Fabrication and Documentation, MTI Report R-1, Materials Technology Institute of the Chemical Process Industries, Inc., St. Louis, MO, 1996.

Materials Selection for Hydrocarbon and Chemical Plants, David A. Hansen and Robert B. Puyear, Marcell Dekker, New York, 1996.

"Selecting Materials of Construction," chapter in Corrosion Engineering Handbook, (Phillip A. Schweitzer, Editor), Marcell Dekker, New York, 1996

"Industrial Chemical" Section in Testing in Environments Chapter of Corrosion Tests and Standards: Application and Interpretation, (Robert Baboian, Editor), ASTM Manual Series, MNL 20, Philadelphia, PA, 1995, pp. 343- 349

"Materials Selection and Corrosion Testing in Piping Systems," Proceedings of the First International Symposium on Process Industry Piping, December 14-17, 1993, Orlando, FL.

"To process food, 200 000 tonnes of stainless," NICKEL, Vol. 8, No. 2, December 1992, p. 9

"Laboratory Equipment Can Fail Also," Materials Performance, Vol. 31, No. 11, November 1992, p. 60

Pick the Right Material for Process Hardware," Chemical Engineering, Vol. 99, No. 10, October 1992, pp. 90-94

"Purity of drugs, sterility demand nickel alloys," NICKEL, Vol. 8, No. 2, September 1992, p. 14

"A Little of This and That Can Cause Big SCC Problems," Materials Performance, Vol. 31, No 4, April 1992, p. 74

"Materials Engineering in the Chemical Process Industry," Materials Performance, Vol. 26, No. 1, January 1987, pp. 9-10

"Materials Selection Criteria For Shell And Tube Heat Exchangers For Use In The Process Industries," Second Symposium on Shell And Tube Heat Exchangers, Proceedings of a Conference, 14-16 September, 1981, American Society for Metals, pp. 95-100.

"An Approach to Improving FRP Equipment Reliability," with P. J. Conlisk, Thirteenth Annual Loss Prevention Symposium, AIChE 86th National Meeting, Houston, TX, April 3, 1979.

"Materials Selection Criteria for Chemical Processing Equipment," Metal Progress, February

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From: Robert Puyear <rbpuyear@swbell.net>  
 To: Jane Durrell <JDurrell@chesterfield.mo.us>  
 CC: Barry Flachsbart <barryf@chesterfield.mo.us>  
 Date: Tuesday - April 22, 2008 3:14 PM  
 Subject: Re: Bio information

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Note the the Materials Selection ... by Hansen and Puyear is a book.

I am also an Eagle Scout and for a number of years Bob McAlister and I were Scoutmaster and Assistant Scoutmaster of the troop at River Bend when our boys were Scouts. Both of our boys became Eagle Scouts. They have grown up and now Tim's older boy is a Life scout and will get his Eagle before too long if all goes well.

Jane Durrell <JDurrell@chesterfield.mo.us> wrote:

If the list of publications is handy, all listed on a page in your computer and accessible by pushing one button, then send it on to us. It would be very impressive, not that we need any more to be impressed. Thanks, Jane

>>> Robert Puyear 04/21/08 3:45 PM >>>  
Barry,

Here is a brief biographical sketch I use for my consulting. I assume you are not interested in the list of publications or the fact I served on a National Research Council committee. What may be of more interest and is not on the list is that I am very active at Kingdom House, a United Way/ United Methodist social service agency downtown where I am a lifetime Board member and a Past President. I presently chair the Development Committee. Donna is also very active and is also a lifetime Board member. The two of us were appointed to this "honor" at the centennial in 2004. We are 2 of only 4 to have this honor (if you can call it an honor to have to go to board meetings for the rest of your life).

Bob

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This email should be considered "unofficial communication" and does not necessarily reflect the official position of the City of Chesterfield. An "official position" of the City shall only be communicated in letter form, using City letterhead.

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1978, pp. 40-46.

"Corrosion of Iron and Nickel Alloys in 2000 and 2200°F Steam," with W. L. Silence, 21st NACE Conference, St. Louis, MO, March 15-19, 1965. Published in Materials Protection, May 1966 and condensed in Chemical Processing for Operating Management, March 1966.

"The Metallographic Characteristics of Diffusion Coatings and Their Relation to Superalloy Properties," with J. R. Schley, 1964 Annual Meeting of the Metallurgical Society of AIME, New York, N.Y., February 19, 1964.

"Aluminum Coating of Steel," ASM Metals Handbook, Vol. 2, 8th Edition, 1964, pp 489-497. Member of ASM Committee on Aluminum Coatings and author of draft for committee approval.

"A Study of Oxide Growth Mechanisms of a Nickel Base Heat-Resistant Alloy Exposed to Air at 1800 to 2200°F," with W. J. Wittig, 19th Annual NACE Conference, New York, N.Y., March 1963.

"High-Temperature Metallic Coatings," Machine Design, July 19, 1962.



## MEMORANDUM

DATE: April 25, 2008

TO: Mayor John Nations  
Michael G. Herring, City Administrator  
Michael O. Geisel, Director of Planning/Public Works

FROM: Judy Naggiar<sup>mn</sup> City Clerk

SUBJECT: Recommendation for Appointment to Planning Commission

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At the conclusion of the April 23 City Council meeting, Councilmember Flachsbart gave me biographical information on Robert Puyear and asked me to provide copies to each of you. Councilmember Flachsbart and Councilmember Durrell are recommending the appointment of Mr. Puyear, Ward I, to fill the seat on the Planning Commission being vacated by Fred Broemmer.

Attachments

From: Robert Puyear <rbpuyear@swbell.net>  
To: <barryf@chesterfield.mo.us>  
Date: Monday - April 21, 2008 3:45 PM  
Subject: Bio information

Barry,

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Bob

