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“Principles of Metal Transfer — It’s all in the Drop
August F. Manz
A.F. Manz Associates
Location: Pantagis Renaissance/Snuffy’s Scotch Plains, NJ

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Chair’s Message
A call to participate—

We on the Executive Committee all agree that each of our New Jersey members have special value and talent. You are very welcome to participate on our Standing Committees & Special Offices. Whatever your strong points; wherever your strengths lie; young and the old; the men and the woman of our community all are of interest and value to us. We will not just thrust you into a committee. Come out and just get to know us. Then YOU can decide to choose a committee that will best suit your sensibility; or use your own new ideas to create value for the Society and the welding industry.

This month, we are grateful and lucky to have Mr. August Manz as our speaker. He not only is an AWS New Jersey member; but a past-chairman of the NJ Section, and current member of the Executive Committee and Chairman of several standing committees. He holds patents on GMAW (MIG) Welding which gives him an excellent platform on which to educate us all The Metal Transfer Arc Welding process is widely used because of its ability to be applied so quickly which is good for production work. Bring your questions about the pros and cons of this process.

The Executive Meeting starts at 4:30. Come and listen —some of the discussions have similar stylings to the conversations in corporate America. You also can get a free education.

Larry Abernethy, BASF, AWS N.J. Section Chairman  
larry.abernethy@basf.com

—AWS NJ Section News February, 2020—
February 19th Meeting 6:00pm

Principles of Metal Transfer — It’s All in the Drop!

Speaker: August F. Manz
A.F. Manz Associates

Gas Metal Arc Welding (GMAW), sometimes known as Metal Inert Gas (MIG) welding, depends on what happens to the molten metal drop on the end of the electrode. Virtually everything depends on that molten drop.

This presentation will discuss the many factors that affect the transfer of the molten drop. Factors such as metal type, shielding gases, surface tension, drop size, arc melting, I^2R heating, etc.

“Gus” Manz is known for his contributions to welding and cutting. An Electrical Engineer, he has over 30 welding patents. He is the inventor of the “Hot Wire” welding processes <Hot Wire Gas Tungsten Arc Welding (GTAW), Hot Wire Plasma Arc Welding (PAW), etc.> “One Knob” Gas Metal Arc Welding (GMAW) that has evolved into “Synergic Welding” and the GMAW power supply with slope, voltage and inductance control.

In 1993, he was inducted into the New Jersey Inventors Hall of Fame. He established A. F. Manz Associates in 1986, Consultants in Welding Technology and Safety.

A member of many American Welding Society (AWS) committees, he is a past NJ Section Chairman, past District II Director, past Director-at-Large, a Life Member, and a Fellow of the AWS. He is the chairman of the American National Standard committee “ANSI Z49.1 Safety in Welding, Cutting and Allied Processes” and a past chairman of the National Fire Protection Association committee “NFPA 51B Standard for Fire Protection During Welding, Cutting and other Hot Work”.

—AWS NJ Section News — February, 2020—
Welcome New Members & Transfers

The AWS NJ Section welcomes the following members that have joined us since our last report. We look forward to seeing you at a meeting.

Melad N. Abdelmalek
Babak Ahmedi
Tim Blight, Industrial Welding Supply
Tori Bobal
James M. Gentner
Richard M. Green
Victor Grigoriew, International Union of Operating Engineers Local 825
Peter Kinsella
Trevor Kraeutler
Thomas Lewicki, International Union of Operating Engineers Local 825
David A. Lindh
Jacob R. Moshner
Edgar Negrete
Yeison A. Ruiz Rave
Larrv A Rumsey
Mina Saleb
Jerry Sheehan, AGL Welding Supply

Morgan J. Skibniewski
Andrew. Sklavounos
Greg C. Stellate
Butch M. Suratt
Joel K. Sylvan

Shady Ezzat Talaat Nashed
Francine Touhey, AGL Welding Supply
Steven Villacis, Workshops for Warriors
William Vaccaro, International Union of Operating Engineers Local 825

Remember — the first dinner meeting that a new member attends is complimentary. We look forward to meeting you.

At the Meeting
November 20, 2019
at Pantagis Renaissance, Scotch Plains, NJ

Steam Explosions In Piping System: Causes and Prevention
Speaker: Michael Nugent, VP Industrial QA, AEIS, LLC
Michael presented a review of the failure analysis for a steam release that had occurred on a high pressure steam line, and discussed other incidents to provide a better understanding of how they occur and ways to prevent them.

Photo courtesy of Eric Dolan, Dolan Associates

—AWS NJ Section News February, 2020—
Sponsors Needed Now

Please support the NJ Section

Thank you for your support!

Executive Committee

Chairman: LARRY ABERNETHY, BASF
Vice-Chair: VINCE MURRAY, AGL Welding Supply Co., Inc.
Secretary: GEORGE SHEEHAN, Retired, Union Cty Voc-Tech
Treasurer: ROBERT ROMAN, Global Partners in Shielding

Executive Committee

Term through 2021

ERIC DOLAN CWI
Dolan Associates

JAMES DOLAN CSP/CWI CWI
Dolan Associates

MICHAEL GABRINSKI
Bankers Steel, NJ, LLC

DONALD SMITH
Somerset County Voc-Tech

PAUL LENOX CWI, CWI
Owens Steel

Term through 2022

STEVEN DAGNALL
Praxair

AUGUST MANZ
A.F. Manz Associates

ALFRED FLEURY
A.F. Fleury Associates

KEN STOCKTON CWI
PPPL

HERB BROWNE, CWI
Morris County Technical Inst

Standing Committees & Special Offices

Awards
VINCE MURRAY CWI
AGL Welding Supply Co., Inc.

Certification
ERIC DOLAN CWI
Dolan Associates

Communications
AL FLEURY
A.F. Fleury Associates

Publicity
ERIC DOLAN CWI
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KEN STOCKTON CWI
PPPL

Safety & Health
GUS MANZ
A.F. Manz Associates

Technical Review
GUS MANZ
A.F. Manz Associates

Treasurer:

Secretary:

Vice Chairman:

Treasurer:

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Sec:

Vice:

Email: grillonpkg@comcast.net

AWS NJ Section News
February, 2020

Comedy Nights & Fundraisers

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Email or check online for current public shows

Connect

Made a change? Have a position to fill? Launching a new service? Found a helpful website? Share your news and information with other AWS NJ Section members by sending it to the newsletter:

Email to: grillonpkg@comcast.net

Subject: AWS NJ Section News

NJ Section News Benefactors

Al Fleury, A. F. Fleury Associates

Gus Manz, A. F. Manz Associates

We acknowledge and thank these members for their ongoing support.

For info on how you can become a NJ Section Benefactor or Sponsor call 732-994-1352, or email: grillonpkg@comcast.net

Coming Events

AWS NJ Section Meetings are held on the 3rd Wednesday of each month, September through May except for December. Unless otherwise posted, the meeting location is: Pan-tagis Renaissance/Snuffy’s Clambar, 250 Park Ave., Scotch Plains, NJ.

February 19, 2020 6:00pm

AWS NJ Section Meeting

“Principles of Metal Transfer — It’s All in the Drop”

August F. Manz, A.F. Manz Associates

March 18, 2020 6:00pm

AWS NJ Section Meeting

“New HyperFill Process”

Troy Gurkin, Global Industry Segment Director, Heavy Fabrication, The Lincoln Electric Co., Inc.

April 15, 2020 6:00pm

AWS NJ Section Meeting

“AWS B5.2 Specification” for the Training, Qualification and Certification of Welding Inspector Specialists and Welding Inspector Assistants”

James Dolan, CSP/CW, CWI

Dolan Associates

Classified Ads

Help Wanted and other classified ads are available free to members and member companies. Just email your text to: grillonpkg@comcast.net

Programs and speakers are subject to change

If your company would like to present a technical program on a welding related topic, please contact us.

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Mail correspondence to:
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Full info, call: 732-994-1352, or email: grillonpkg@comcast.net

Thank you for your support!