

National Institute of Steel Detailing

Connection

Fall 2018

NISD 50TH Annual Meeting

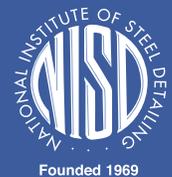


▶ *Behind Every Principle There
is a Promise - Part 4*
pages 7 & 20

▶ *Reprint From 1973*
page 13

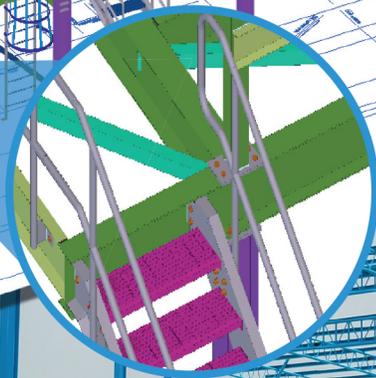
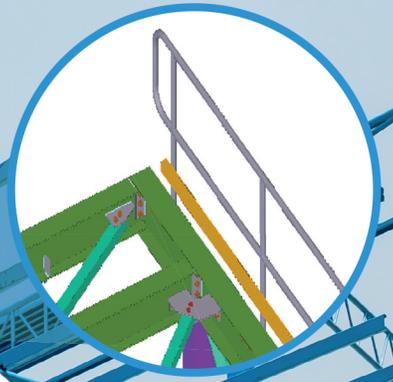
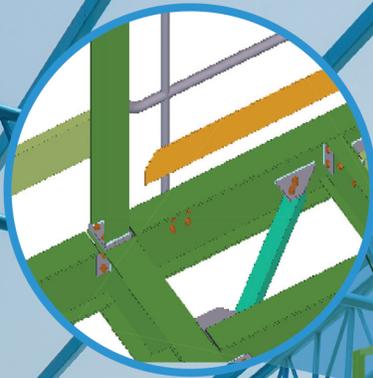
▶ *NISD 50th Annual Meeting*
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▶ *Meet the NISD Officers &
Board of Directors*
pages 19, 22, 24, & 26



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"Three things prevented me from adopting 3D detailing ten years ago. First was the fear of learning a new system, second was having to earn a living while learning and third was cost. If I had known then what I know now, I wouldn't have waited so long."

- Doug Malm, Steel Detailing Services.

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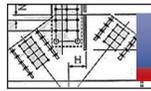
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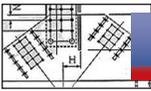
Special Announcements

NISD's NEW Website & Discussion Board Inside Back Cover

The "Connection" is the official publication of the National Institute of Steel Detailing, Inc., 2600 Kitty Hawk Road, Suite 117, Livermore, CA 94551. Editor, John Linn

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John Linn
Editor

The 2018 NISD Annual meeting was a great success. The attendance was the best we have had in many years. The overall feeling that permeated the entire affair was positive and upbeat.

The Embassy Suites Hotel in Phoenix, Arizona was a perfect setting for our group and the speakers at the meeting were informative, interesting, and entertaining. If you were at the meeting you know what a great time we all had. If you were not there I hope you will be able to attend next year's annual.

One of the reasons for the upbeat atmosphere at the annual was the presence of AISC president Charlie Carter. His background is in engineering and he has a good understanding and appreciation for the role that detailers play in bringing a steel project to a successful completion. Charlie has asked the NISD if we could work together with AISC to update the 2002 publication of the manual "Detailing for Steel Construction", which we had previously co-authored with AISC some 16 years ago.

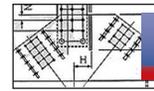
The NISD board of directors is now functioning under the amended Constitution & By-Laws, which maintains the same number of three officers but has lowered the number of board directorships to seven members for a total of ten members. Also, for the first time, one of the directors is an overseas member-at-large.

This edition of the Connection contains a picture and short biography of each board member along with their contact information. Please feel free to contact any one of them if you have an issue to bring to the board's attention.

In this issue, we are reprinting an article that Jack Metcalfe wrote for The Connection way back in 1973. His words are just as valid today as they were 45 years ago. I hope you enjoy reading it.

I appreciate the contributions of articles for this Connection from a few of our members: Kerri Olsen, Alden Prier, and Mark Frohnen.

- John Linn



Joel Hicks
President



Hello Everyone,

I hope this issue of the Connection finds you hard at work, and doing so profitably. Let's keep our fingers crossed that the economy stays healthy and continues to grow so that we can all stay busy.

I don't know of any industry that works harder than steel detailers. We sometimes feel it is a thankless job, but most successful fabricators, erectors, engineers, architects, and contractors who are honest with themselves, and understand detailing, realize that good detailing is the key to a successful steel project.

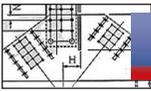
The NISD has been working hard to promote and educate detailers. Our programs, QPP, IDC and CD-Bim are recognized by the AISC, SEAA, the National Bim Forum, and structural engineering bodies as a viable part of training and confirmation that NISD detailers are the most credible source for detailing. I would encourage you to make sure your firm is QPP-certified, that you and your lead detailers are IDC-certified and that you explore the CD-Bim certification as we move closer and closer to a true model-based, paperless industry.

In this issue you will read about our Annual Meeting last spring. Once again, we had a very interesting and lively meeting. We were privileged to have as a guest speaker, Charlie Carter, President of AISC, and Dave Schultz, President of SEAA. Where else will you be able to have that kind of one-on-one interaction with industry leaders. We very much appreciate their willingness to come out and speak to us, answer our questions and be eager to support and work with us on developing our programs and initiatives.

I would be remiss if I did not mention that we also were happy to present our first Lifetime Achievement Award to Jack Metcalfe. As one of the "founding fathers" of NISD, he has given of himself, his time and money literally for decades in serving as president and probably every other office there is. We have been blessed to have his service, professionalism and wisdom. I consider myself wiser for having the opportunity to be around him and lean on his experience and knowledge.

We are working on some more exciting projects for the coming year. Make sure that you are a part of them. Let me know if there is a place you would like to serve, and if there is anything I can do for you.

Sincerely,
Joel Hicks



IDC Interview - Nethaji Muttam

by John Linn

NISD has just certified a steel detailer for the third time from India. His name is Nethaji Prasad Muttam. He works as general manager for MOLD-TEK Engineering based at Hyderabad, India where he has been happily employed for the past 12 years. He is experienced in precast, structural steel & metal stud wall detailing services and has limited exposure in detailing rebar and pre-engineered metal buildings.

After working as a steel detailer for a little over twelve years, he has just become re-certified as a Class-I Senior Detailer in the Structural/Miscellaneous discipline. The senior category requires at least 87% correct answers on the test and at least ten years' experience in steel detailing, including some time in checking drawings.

He was certified as a Class-II detailer in 2012 for first time and re-certified as Class I in the year 2015. He believes that taking the IDC tests greatly advanced his knowledge of steel detailing. The IDC test was always challenging and the preparation for the test made him a better detailer by introducing many interesting topics such as AISC, RCSC, AWS, and IBC codes.

One of his recently completed projects is a new 1800-ton library building at Temple University. The building was featured in the September 2018 issue of Modern Steel Construction.



Mr. Nethaji Muttam lives in the state of Andhra Pradesh, India. He is married and is the proud father of two young daughters ages 6 and 3. I was most impressed by this person's enthusiasm and appreciation for the IDC program. He has convinced several other detailers to become certified and he is planning to talk to a few others about joining the program.

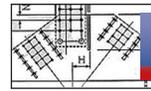


Individual Detailer Certification Program

Industry professionals are in search of talented detailers who have the knowledge and capability to produce quality shop drawings within the framework of various codes, specifications and contract documents.

NISD created the Individual Detailer Certification Program in response to the steel industry's need to measure the skill level of individuals performing steel detailing services.

This is not a test of memory but a test of ability. The exam's emphasis is based on a candidate's knowledge of the various techniques, codes, and specifications involved in detailing.



Behind Every Principle There is a Promise - Part 4

by Kerri Olsen



NISD Industry Standard - Chapter 5 - Managing Steel Detailing Projects

This chapter on Managing Steel Detailing Projects provides a typical outline for Business, Contract and Technical Management. This chapter might be thought of as the heart and soul for steel detailing business practice. The suggestions in Chapter 5 together with Chapter 7 – Appendix 7.2 Log of Sample Documentation forms support steel detailers with developing a routine business format for most of their project needs.

Whenever a steel detailer I do not know contacts me offering their services, the first thing I ask is if they are NISD members and if their steel detailers are NISD Certified. If the answer is ‘no’ to one or both of these questions, I thank them for their inquiry, direct them to the NISD website and suggest they look into membership and certification. When time and opportunity allow and the steel detailing firm is US- based, I will call them up and explain the NISD difference.

It is planning the job experience of which I speak: Peeling back the layers of information, targeting the trouble areas, getting that clarification before we produce anything. This process for research, planning and execution prevents the job from becoming a mess, then translating into more work and higher costs into an already too-tight budget and schedule.

The bottom line for me is this; when I hire an NISD certified steel detailer to do my work, I don’t have to spend my time managing their behavior. I don’t have to check for RFIs that should be submitted. I don’t have to back check for shop detail and erection drawing presentation and references. I know that my steel detailer is already on their game. When I receive a set of approval drawings from my detailer, these drawings are shop ready, minus the designer’s approval stamp.

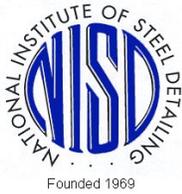
It is all about good steel detailing business practice. When the steel detailer front-ends their work with RFIs, it prompts into action the push for answers. We then know that shop detail drawings will be produced upon receipt of those answers. When we bypass the RFI process, we fall prey to unrealistic scheduling demands, compounded by missing and unresolved information needed to perform our work.

We know this and we deal with it on every job, but we can minimize and even eliminate negative behavior when we start with and maintain a routine business practice as outlined in Chapter 5 for Managing Steel Detailing Projects, and use the forms in Chapter 7.2.

What experience has taught me is that to hire a steel detailer unfamiliar with the NISD Standard for Steel Detailing means more work for me to manage their steel detailing practices during the course of the entire job. As a preventative measure, I will have to closely monitor their behavior, taking time away from my other very necessary management tasks. The level of patience and overtime hours this requires exceeds most units of measure. I choose to not go there.

Many steel detailers fail to follow the RFI process, and put questions or dimensional verifications on the approval submittal drawings, even when directed not to. When this happens on my jobs, I then must weigh the domino effect of scheduling time loss for scrubbing these drawings upon approval return – plus any other unknowns - against now returning the approval submittal drawings to the steel detailer and generating proper RFIs – something I never have to worry about when I hire the right steel detailer. Just remembering the phone calls, emails, re-submittals, letters, threats, notices, pain and suffering as a direct result of a bad detailing choice now makes me shudder. Never again!

Continued on page 20



National Institute of Steel Detailing

Application for Individual Detailer Certification



Classification:

- Senior Detailer – Class I: Minimum 10 years experience including checking
- Detailer – Class II: Minimum 5 years experience

Category:

- Structural/Miscellaneous
- Bridge

Submit:

- Experience history, and
 - Either a letter of recommendation from a steel fabricator, a Certified Class I detailer, or a NISD National Director.
- When your application is processed, you will receive a sample test and a list of publications to study for the test.*

IDC Test Fee Schedule

At time of application + 10 days prior to test + proctor fee (if applicable)

NISD N. American Members -	\$100.00	+	\$200.00
Non-Members in N. America -	\$200.00	+	\$300.00
Overseas Members -	\$150.00	+	\$200.00
Non-Members Overseas -	\$250.00	+	\$300.00

Personal Information:

First Name: _____ Last Name: _____
 NISD Member: yes no Last 4 digits of SS# or SIN# _____
 Home Address: _____
 City: _____ State/Province: _____
 Zip/Postal Code: _____ Country: _____
 Telephone #: _____ E-mail: _____
 Current Employer [if applicable] _____
 Business Address: _____
 City: _____ State/Province: _____
 Zip/Postal Code: _____ Country: _____
 Telephone #: _____ E-mail: _____

Indicate which address [no P.O. Box] is best to receive IDC materials: Home Employer

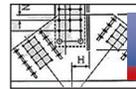
Method of Payment: Check Visa Mastercard

Make check payable & send to: **NISD, Inc.**, 2600 Kitty Hawk Rd., Suite 117
 Livermore, CA 94551

Credit Card Information: Credit Card #: _____ Expiration Date: _____
 Name as it appears on card: _____
 Signature: _____

For more information: Visit our website at www.nisd.org or send us an e-mail at nisd@sbcglobal.net

Re-certification is required every 3 years

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Philippe Gagnon-Adam



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PRODUCT		QTY	Amount
Guidelines for Successful Presentation of Steel Design Documents ...the Steel Detailer's Point of View	No charge		
Certification Programs for Detailing Companies & Individual Detailers	No charge		
NISD Informational DVD : Introduction to Steel Detailing	\$10.00		
Quality Procedures Program	\$10.00		

[Regular, Associate & Overseas **new** members receive 1 copy free of the following manuals & CD]

PRODUCT	Member Price	Non-member Price	QTY	Amount
NISD Industry Standard Manual	\$30.00	\$45.00		
Beam Cards [CD only]	\$15.00	\$20.00		
Hot Dip Galvanizing "What We Need To Know"	\$20.00	\$25.00		
Painting And Fireproofing "From a Detailer's Perspective"	\$20.00	\$25.00		
Shipping & Handling Canada - Central or South America		\$28.00		
Shipping & Handling Overseas		\$38.00		
(Sorry No Invoicing)		TOTAL		

All above items going to addresses within the US include shipping & handling. Please allow 10 business days unless other arrangements are made at additional cost. **International shipping is extra.**

Detailing Guide for Erector's Safety & Efficiency [Second Edition] Contact SEAA at 336-294-8880 or www.seaa.net
AISC/NISD Detailing for Steel Construction Manual [Third Edition] Contact AISC at 847-364-1222 or www.aisc.org

Name: _____

Firm: _____

Address: _____

City: _____ State/Province: _____ Zip/Postal Code: _____

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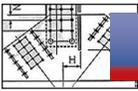
Method of Payment: Check  Visa  Mastercard

Make check payable & send to: **NISD, Inc.**
2600 Kitty Hawk Rd., Suite 117
Livermore, Ca 94551-9699

Credit Card Information: Credit Card #: _____ Expiration Date: _____

Name on card: _____ Signature: _____ Daytime phone: _____

For Information: Tel: (925) 294-9626 Fax: (925) 294-9621 E-mail: nisd@sbcglobal.net



Congratulations!

This regular feature recognizes detailers who have recently taken and passed the IDC test. The listing is by discipline and class.

Structural/Miscellaneous Senior Detailer – Class II

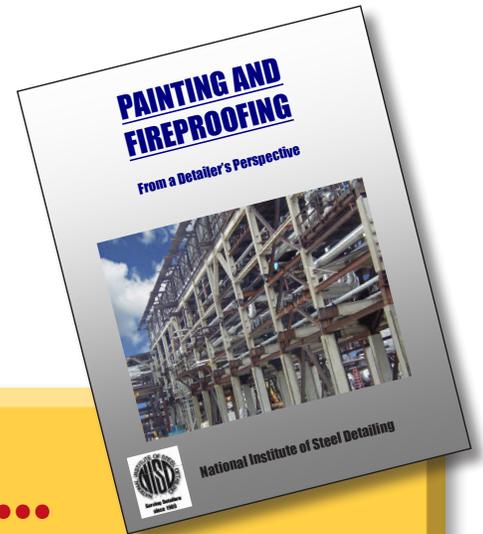
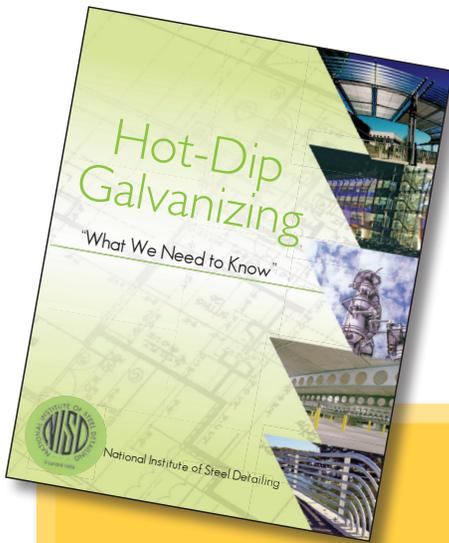
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tenca@tencainc.com



NISD Publications...

These reference guides are available.
Order them online at www.nisd.org



Founded 1969

The Iron Messenger:
An IMPACT Publication,
August 2014 Issue

Training, Safety, Leadership – Training Spotlight AISC and IMPACT Introduce Steel Detailer Training Series

Originally developed by AISC and the National Institute of Steel Detailing, the AISC Detailer Training Series is being made available as a free web-based service thanks to funding from IMPACT.

The DTS program provides an introduction and overview of the roles and responsibilities of the steel detailer. This program consists of 10 Modules – most with multiple parts. Each of these parts consists of a series of videos, followed by a quiz pertaining to the concepts covered in that section. Click on a module listing on the DTS page to begin. At the end of the (entire) course is a final exam. A certificate of completion is earned upon passing this exam. Each exam can be repeated until a passing score is achieved.

On the Job Site — Apple Store - San Francisco

CAL WEST STEEL DETAILING

San Francisco, California

NISD member Cal West Steel Detailing has detailed a very complex steel project, which was selected to receive the 2018 IDEAS2 award by the American Institute of Steel Construction.

The building is located in San Francisco's well-known Union Square, close to the exclusive financial district. Inside, the building is supported by a 3-story steel truss that bridges over the basement ballroom of the neighboring Grand Hyatt Hotel. The dramatic 40-foot high interior area is divided horizontally by a mezzanine floor that cantilevers 32 feet out from the rear wall of the building. One of the unique features of the building is the storefront glass wall with its 42-foot high sliding glass doors.

There were numerous design revisions made during the detailing phase, which required the detailing schedule to take close to a year for completion.

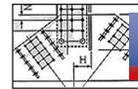
Congratulations to Cal West for their prestigious award and a job very well done.



42 foot high entry doors



The mezzanine 32 foot cantilever



Reprint From 1973 –

The officers and directors of your Institute have often been asked, "What is the future of NISD?" This question can best be answered by the printing of an address given by Jack Metcalfe to the Board of Directors, in Pittsburgh, September 22, 1973.

President Ziegenfuss has asked me to address you on NISD and the future. I find that this is not an easy task.

In the early stages of preparing my remarks, I found myself optimistic one day and pessimistic the next. When I considered the talent, the dreams and the opportunities of the Institute, I would become most excited. My mind's eye would envision a strong,

influential association of independent professionals joined together in the common cause of industry betterment. Then, when I considered your hesitancy – your fear of angering your clients – your reluctance to participate in Institute programs – your unwillingness to co-operate, or to donate a few hours of effort a month – and your lack of trust – I became very pessimistic and I wondered if it is all worth it.

THE FUTURE OF THE INSTITUTE IS YOU!!!

What then, I pondered, is the future of the Institute? Suddenly, the answer came, loud and clear.

THE FUTURE OF THE INSTITUTE IS YOU!!!

You are the leaders of the industry. You are the owners of the firms doing the majority of the sublet work. You are the ones that determine the wage scales, the standard of living, the quality of work, the average prices, the ethics, the standards, the relationships, etc. If the industry leads you, rather than you leading the industry, it is because sometime in your past you chose to let it. If, however, you choose to exercise your leadership, then the future will be whatever you make it.

Should you elect to have a meaningful organization, then you shall have one – if you elect to maintain it at its present level, that is where it will stay.

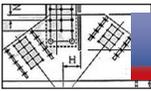
If you decide to develop programs, procedures or standard practices – and, more important, to use these concepts in your daily operations, then they will eventually play an accepted role in the future. If, for some reason, you are reluctant or afraid to use these programs, then the future is just yesterday all over again.

In short, gentlemen, YOU are the future. It is within your power to dictate the position of the industry 5 years from now. It is up to you to determine what tomorrow will be.

And tomorrow is the first day of the future.

Respectfully submitted,

Jack Metcalfe



NISD 50TH Annual Meeting – Phoenix, Arizona

by Kerri Olsen

Meeting attendance was astounding this year, with many familiar faces from years past and new members as well! The most pleasant surprise to me of all was the huge crowd attending the Friday evening Welcome Reception! This was the first year in recent memory that the NISD Annual Meeting did not immediately follow NASCC. While attending NASCC and the NISD Conference in the same week saved on travel, many of us found by week's end we had become meeting weary. We also came to realize that we had sacrificed our leisure time and our golf outing by combining meetings. All work and no play!

Regardless of what made the difference, I have to tell you, there were so many attendees I did not have time to say hello to everyone I wanted to!

This year's annual meeting was held at the Embassy Suites at the Phoenix Biltmore. The location was convenient and the weather was perfect. We extend a special thank you to the Welcome Reception sponsors Apex Structural Design, Ltd., TDS Industrial Services, Ltd., Trimble, Qnect, and our gold sponsor Giza! We all appreciate what you have done, and continue to do in support of the NISD Conferences!

Friday at Biltmore Golf Course – missing is Dave's wife, the golf cart driver, and photographer Kerri Olsen. This was a great outing and we are all looking forward to next year! ▼



LEFT TO RIGHT – JOHN LINN, FRANK MERCURIO, MUNNY PANESAR, DAVE SCHULZ AND GLENN IHDE

For those of you unable to attend, you were missed. I understand how hard it may be to take time off work, as many of us do work nights and weekends to get the work out. This is the only time we have to come together to network, to share our successes and failures, to gain the experience of others with finding possible solutions and remedies to the day to day problems and situations complicating our work.

I know there may not be answers to everything. At this annual meeting, we do have the opportunity for an open dialog, which supports a united self-preserving framework like Greg Brawley talks about in the Industry Standard. There is much to discuss regarding

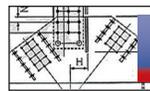
how our work is affected by increased software functionality and the influx of new steel detailers, how to best manage this changing landscape to be workable between ourselves and our industry partners.

Visits to steel fabricator offices across the country confirm that the basic problem most have with steel detailing remains the same - poor presentation, incorrect details and references, which cause problems in fabrication and erection of the steel – all due to a lack of education with both the steel fabricator and the detailers they select. Education is the remedy, and this education begins with us. The Industry Standard, the QP program, and the Certification Program are all designed to provide that needed education, with the help and support of our seasoned members.

The basic purpose of these annual meetings is to share. You have the opportunity to gain the benefits of what our seasoned members have to offer. You only have to show up to meet us, ask questions, complain, to do whatever you have to do to get our attention, allow us to share with you and hear what you have to say. Extract from that which you can take and use. That is really all we are about - to help each other!

My hope is that we will see you all next year! Till then I will be practicing my golf game; I was miserable this year. Maybe I should have gone to the Butterfly Museum with the others...

Photos on pages 15 & 17



PHOTOS



PAM METCALFE, MICHELLE MERCURIO AND KAROLYN LINN VISITING BUTTERFLY WONDERLAND



PAUL CROCKETT TALKING TO EARNE MCMAHON AND JEFF GRAHAM OF MCFABCO STEEL, SEATTLE, WASHINGTON. THE NISD ANNUAL MEETING IS A GREAT PLACE TO 'HOOK UP' WITH WORLD CLASS STEEL DETAILERS!



LEFT TO RIGHT ARE A.I.S.C. PRESIDENT CHARLIE CARTER, JACK METCALFE, AND FRED TINKER, ENJOYING THOSE WELCOME RECEPTION COCKTAILS PROVIDED BY APEX STRUCTURAL DESIGN, LTD.



NISD PRESIDENT JOEL HICKS, PRESENTED GLENN IHDE WITH A BIG THANK YOU FOR HIS SERVICE AS SECRETARY/TREASURER!



THE THREE PRESIDENTS IN THE ROOM - SEAA PRESIDENT DAVE SCHULZ, NISD PRESIDENT JOEL HICKS, AISC PRESIDENT CHARLIE CARTER



OUR AMAZING NISD MANAGER KAROLYN LINN AND HER HUSBAND, JOHN LINN, JOHN LINN ASSOCIATES, INC.



PAUL AND MARY-JEAN CROCKETT



FRED (PACIFIC DRAFTING, RETIRED) AND BARBARA TINKER



MICHAEL AND LIZ BOWERS, PAST NISD PRESIDENT



JULIA ANDERSON AND MIKE FISCHER OF FISCHER DESIGN GROUP



JOHN LINN AND JOEL HICKS - MY MENTORS



GLENN IHDE, PAST NISD SECRETARY/TREASURER AND WIFE ALICE

More photos on page 17



National Institute of Steel Detailing

Membership Application

The annual membership cycle runs from June 1st through May 31st

Regular Membership is open to any company that conducts its office in the Americas for, and is regularly engaged in, the business of steel detailing. Such office shall have been conducted for a minimum period of one year. A member in this category may be chapter affiliated or a member-at-large, and has all privileges and benefits of membership including voting and holding office.

Fee Schedule: **\$290** for companies with a gross annual income of less than \$250,000 [June-September]
Prorated dues when joining October-February **\$200** March to May 31 of the following year (15 months) **\$290**
\$450 for companies with a gross annual income greater than \$250,000 [June-September]
Prorated dues when joining October-February **\$305** March to May 31 of the following year (15 months) **\$450**

Associate Membership is open to any company, national or regional trade or professional association interested in enhancing the detailing profession or the activities of the NISD, whose primary business is not in structural steel detailing. This category includes all privileges and benefits of membership except those of voting and holding office.

Fee Schedule: Annual membership fee is **\$360** [June-September]
Prorated dues when joining October-February **\$245** March to May 31 of the following year (15 months) **\$360**

Individual Associate Membership is open to a person employed as a steel detailer or other person interested in the future of the steel detailing industry but who does not fall in the category of Regular or Associate membership. This category has limited privileges and benefits of membership, which precludes them from voting and holding office.

Fee Schedule: Annual membership fee is **\$65** Annual dues of \$65 are renewable on June 1st

Overseas Membership is open to any company that conducts a regular office for, and is regularly engaged in, the business of steel detailing outside the Americas. Such office shall have been conducted for a minimum period of one year. Members in this category may vote (no proxy votes), but they may not hold national office.

Fee Schedule: Annual membership fee is **\$450** [June-September]
Prorated dues when joining October-February **\$305** March to May 31 of the following year (15 months) **\$450**

Member Emeritus Membership is open to any individual who was a former regular member of the NISD and has retired from the competitive field, but wishes to remain active in the NISD. Members in this category may not hold office.

Fee Schedule: Annual membership fee is **\$100** Annual dues of \$100 are renewable on June 1st

The undersigned hereby applies for membership in the National Institute of Steel Detailing, Inc.

Name _____ Title _____
Company Name _____
Address _____
City _____ State/Province _____ Zip/Postal Code _____
Country _____
Telephone _____ Fax _____
E-mail _____ Web site _____

Payment in US Dollars

Membership Fee: US\$ _____

Postage/handling, add:
\$40 for Canada \$ _____
Central & South America

\$45 for International \$ _____

TOTAL ENCLOSED US\$ _____

Method of Payment

Check, payable to: **NISD, Inc.**
2600 Kitty Hawk Rd., Suite 117
Livermore, CA 94551-9699

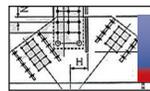


MasterCard Visa

Number: _____ Expiration Date: _____

Signature: _____

To receive a free subscription to **Modern Steel Construction** magazine (U.S. only) go to: www.modernsteel.com/subscriptions



2018 Annual Meeting Event Sponsors

Thank You!

NISD would like to give special thanks to the generous sponsors who contributed to this year's Annual Meeting.

If you ever have the opportunity to thank them personally please let them know that you do appreciate their participation and contributions to our annual meeting.



www.apexstructural.ca



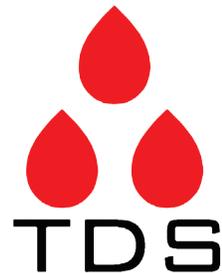
www.tekla.com



gizasteel.com



www.qnect.com



www.tdsindustrial.com

NISD 50TH Annual Meeting Photos *Continued from page 15*



DOMINGO AND KITTY SETIEN



ALL PRESIDENTS PAST & PRESENT — JACK METCALFE, JOHN LINN, MICHAEL BOWERS AND JOEL HICKS — IF YOU HAVE NEVER HAD DINNER WITH THESE GUYS YOU ARE TRULY MISSING OUT!



ALDEN PRIER WAS AWARDED FOR HIS SERVICE AS NISD VICE PRESIDENT — THANK YOU ALDEN!



THE 'LIFETIME SERVICE AWARD' WAS PRESENTED TO JACK METCALFE! WE JUST CANNOT SAY ENOUGH ABOUT ALL JACK HAS DONE & CONTINUES TO DO FOR THE NISD!



CONGRATULATIONS TO ALL OF US! TOO MANY TO GET ALL IN THE PICTURE! WE LOOK FORWARD TO ANOTHER PROSPEROUS YEAR!

On the Job Site — Public Art Project

APEX STRUCTURAL DESIGN LTD.

San Antonio, Texas

Apex is owned by NISD past vice president, Alden Prier. He has given us this unique structure for publication in the Connection.

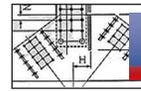
This project was basically designed by an artist working together with an architect and engineer. By looking at some of the photographs you will be able to appreciate the excellent work that Apex and the rest of the construction team did to bring the vision of an artist into reality.

As the art portal leading people from the nearby San Antonio Riverwalk towards Mission San Jose via Mission County Park, CoCobijos acts as both a shade structure and transition from natural beauty to historic themes. The title of the installation is a combination of the prefix “co” and the Spanish word for shelter — “cobijo.” It was inspired by wild cacti that have become a treasured feature within Mission San Jose, a nearby historic mission. These cacti make up the roof above one of the native dwellings in a seemingly impossible balancing act. Despite renovations over four decades, these cacti have not only survived but flourished. Cacti will be planted above and below the structure to add dimension to the massive curving cactus stems, complete with lace-like inserts similar to the texture of dried cactus.

Successful completion of this project required the consideration of many unique details. The first challenge encountered was that the complex geometry the artist had designed was not provided by traditional drawings. Working with an artist’s model, conceptual sketches, and only three design drawings provided by the Engineer of Record, all design and connections required thorough coordination to ensure that all parties could collaborate on the final product.



Continued on page 23



Meet the NISD Officers & Board of Directors

NISD Officers



President – Joel Hicks

Joel has 42 years of experience in steel detailing, design and engineering, and attended the University of Alabama Birmingham - School of Engineering.

He is currently the President of the National Institute of Steel Detailing (since 2015) and sits on the AISC Code of Standard Practice Committee and the NASCC Committee. He is actively involved in the future of steel detailing, helping develop BIM Certification and Individual Certification programs.

Joel is married with 5 children and is an active member of Argo Christian Fellowship and Tres Dias Christian ministry.

Contact information – jhicks@bgtek.com or (205)508-5990

Vice President – Kerri Olsen

Kerri is a steel professional with a long history of estimating, detailing, project management, production management, quality control, business management and business ownership in structural, miscellaneous, and steel tank fabrication. Author of “Commercial Steel Estimating”, she has also published articles in the Connection, Modern Steel Construction, Structure Magazine, and the Daily Journal of Commerce.

Contact information – kerriolsen@steeladvice.com or (360)426-4108



Secretary/Treasurer – David Merrifield

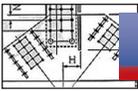
David has over 50 years of experience in fabrication, engineering, erection and project management of major projects across the United States and in several foreign countries.

He is a board member of the National Institute of Steel Detailing and chairman of the Quality Procedures program and CD-BIM committees. He is president of the Texas Structural Steel Institute, an AISC affiliate organization. An early member of the BIM Forum, David continues to serve on the LOD Core group as co-chair structures and is a member of the BIMXP task force.

At the 2017 NISD annual meeting, David was given the Man of the Year award and was just elected as Secretary/Treasurer of the NISD board.

Contact information – merrifield.d@gmail.com or (214)794-8855

Continued on page 22



Behind Every Principle There is a Promise - Part 4

Continued from page 7

As you go through Chapter 5- Managing Steel Detailing Projects, there are four basic categories:

- Pre-Bid Documents – the estimate
- Pre-Production Documents – managing the RFIs
- Production Documents – managing the drawing submittals
- Contract Change Documents – managing the scope of work changes

These four categories generally cover most jobs, providing a path to problem solving and achieving a steel detailing business practice standard. Sample documentation is provided in Chapter 7 – Appendix 7.2 Log of Sample Documentation. This documentation list is categorized as the following:

- **Pre-Bid Documents**
 - Detailing Estimate Worksheet – used to confirm the estimate value of the work
 - Proposal for Steel Detailing
 - Detailing Estimate Scope
 - Original Contract Bid References
- **Pre-Production Documents**
 - Request for Information
 - Request for Information Checklist
 - General Analysis of Structural Design Documents
 - Analysis of Structural Steel General Notes and Specifications
 - Analysis of Dimensioning
 - Analysis of Connections
 - Conflicts between Basic Structural Connections
 - Analysis of Miscellaneous/FOB connections
 - Analysis of Miscellaneous Items
 - Conflicts at Details Sections and Plans
 - Drawing analysis for the Team Leader

- **Production Documents**

- Shop Drawing Submittals
- Reviewed Approval Submittal Release for Fabrication
- Reviewed Approval Submittal Revisions
- Log of Detailing Errors
- Notice of completion

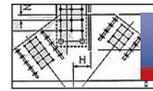
- **Contract Change Documents**

- Extra Work Order Submittals
- Change Order List
- Additional Backup for Detailing Changes
- Authorization to Proceed
- Change Order Request Credit for Scope Reduction
- Log of Added Design References
- Impact Notices

The most important part, and maybe the most difficult for some, is to stay on your process path without deviation. When you allow others to push you off track, the job will be managing you. The resulting devastation will be unrecoverable. When executing the principles outlined in the Industry Standard, you have the gift of successful foresight; anything less promises a dark future.

This concludes our four-part series for ‘Behind Every Principle There is a Promise’ as presented with the NISD Industry Standard. I do hope it was helpful for revitalizing your outlook as to the level of importance this document really is for steel detailers.

Each principle outlined in the NISD Industry Standard is a promise – a promise for efficiency, a promise for accuracy, a promise for success - our promise to be the best we can be in our trade.



NISD 50TH ANNUAL MEETING SPEAKERS



GIZA Steel – Gold Sponsor

GIZA Design Software

GIZA Steel representative Jim, presented the GIZA connection design software. This software provides connections for shear, moment and vertical bracing connections, integrating with Tekla Software. Jim had a great presentation and provided the slides for his discussion on a thumb drive for us in the conference swag bag for later viewing.

Mariana Ludmer & George Rolla American Welding Society

How Steel Detailing Impacts the Welding Industry

Presenting How Steel Detailing Impacts the Welding Industry were Mariana Ludmer and George Rolla with the American Welding Society, members of the California Welding Institute, a welding training facility. Both are certified professional welders who volunteer with the AWS to promote welding as a career. Discussion was on weld symbols, weld processes, Welding Code requirements and their work to update the code books. As California Welding Institute members, they perform internal audits for steel fabricators. In their work they perform detail drawing reviews for welds and review weld procedures. Use of prequalified weld procedures is preferred.



Their presentation stressed the importance of preventing confusion by using correct weld symbols and nomenclature, as errors with weld symbols create havoc with inspectors. There was much discussion on the often-overlooked need for adequate weld access, situations that can remain undiscovered until fabrication.

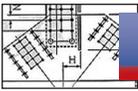


Dave Schulz, President SEAA – Steel Erectors Association of America

Dave Schulz, owner of Schulz Iron Works, talked about what steel erectors need and look for in shop detail and erection drawings. Discussions were based upon the need for notes on shop and erection drawings for field applied special inspections, coatings, and full penetration welds. Missed weld details, notes on center of gravity, provisions for backing bars, and removal of erection aids are other challenges which are faced by the structural steel erector.

Dave’s presentation was lively, entertaining, and informative; I had so much fun listening to him I almost forgot to take notes!

Continued on page 25



Meet the NISD Officers & Board of Directors

Continued from page 19

NISD Board of Directors



Richard Anderson

Richard graduated in 1994 from the University of Montreal (Polytechnic School) with a Bachelor Degree in Engineering. He founded with other partners, Tenca Steel Detailing, Inc. in 2004, located in Quebec City, Canada. They are a detailing firm that specializes exclusively in bridge detailing.

Contact information – randerson@tencainc.com or (418)634-5225

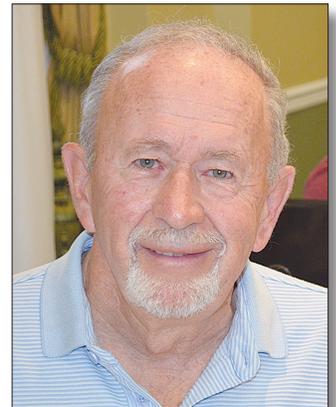
John Linn

John has worked in the steel detailing business for over 55 years. He started the firm John Linn Associates, Inc. in 1977.

John has served as NISD Secretary/Treasurer, Vice President, and President. He is currently serving as the controller for NISD and is a long time member of the board of directors. For many years he has been the editor of the Connection and the guardian of the Constitution and By-Laws.

John is a member of the NISD Quality Procedures program, the Individual Detailer Certification program, and an associate member of AISC.

Contact information – jla-jtl@pacbell.net or (925)443-3363



Christine McCulloch

Christine has been in the steel detailing business for 22 years. She currently works in business development and project management coordination for PDC Group located in Ontario, Canada.

Christine was first elected to the NISD board of directors in 2003. She is currently serving a second term on the board.

Contact information – Christine.mcculloch@pdcgroup.com or (613)969-2410

Continued on page 24

On the Job Site — Public Art Project

APEX STRUCTURAL DESIGN LTD.

San Antonio, Texas *Continued from page 18*

Once the artist's model was converted to a Tekla model, joints and connections were simplified as much as possible to simplify transitions while ensuring that joints maintained structural integrity. Members "twist" as they cross over the top of the arches and tie together in compound angles requiring challenging unique transition connections. Conveying the geometry into the shop drawings was challenging and a system of punch marks was added to the model, which were conveyed into the CNC data and used as alignment points during fabrication. Due to the cutting of the patterns in the lattice plates, it was important that the orientation of the plates and the artists' patterns were maintained. This was also handled with CNC punch marks that were conveyed into the CNC data.

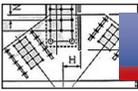
This project would not have been possible without the full cooperation and collaboration between the artist, the Engineer of Record, the steel fabricator, the material suppliers, and the detailers.

The steel framing came in at 10.5 tons and required 306 parts drawings. Only three design drawings were provided by the Engineer of Record. Lattice plates were plasma cut and totaled 5754 linear feet of cutting (over 1 mile). HSS members were cut using a 4kW laser.



For more information feel free to visit San Antonio river foundation at <https://www.sariverfoundation.org/river-initiatives/mission-reach/cocobijos/>





Meet the NISD Officers & Board of Directors

Continued from page 22

NISD Board of Directors *Continued*



Jack Metcalfe

John (Jack) is the senior board member of NISD and has served the institute continuously since 1969 as a committee chairman, national Vice President, President, and board member. In addition, he is our liaison to the steel erection community and sits on the board of directors of SEAA (Steel Erectors Association of America).

Jack recently retired from the John Metcalfe Co., a highly regarded bridge detailing firm, and now operates as an independent consultant with the steel construction industry on matters of conflicts, cancellations, terminations, back charges and other items.

Contact information – metcalfe51@aol.com or (724)327-1203

Russell Neal

In the early eighties, Russell began his career with the New Zealand railways. In the mid-2000s, facing rising costs and a shortage of resources in New Zealand, Russell relocated to Manila to set up an offshore steel detailing office. In 2012 he saw an opportune time to establish his own detailing company, Revision Zero. Revision Zero, now with a team of seventy plus, is fully based in Manila and managed by a team of expats, servicing clients in Canada, the US, Australia, and New Zealand.

Russell hopes to bring the understanding of this workforce and the experience in operating in South East Asia to the board of the NISD. He is the first overseas member on the NISD board of directors.

Contact information – russelln@revision-zero.com or (516)231-0600



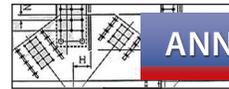
Michael Pelliccio

In 1960, Michael started working for his father in his steel fabrication shop. He took the shop over in 1974 then gave the operation to his nephew in 1997 and at the same time started his own detailing business. He then sold his business to a steel fabrication shop (one of his clients) in 2017 and now works part time running the drafting department.

In 2003 Michael became the director of the North East Chapter of NISD. He still remains a director today, and for many years he has managed the NISD booth at the NASCC Conference.

Contact information – Michael.pelliccio@snet.net or (203)272-2482

Continued on page 26



NISD 50TH ANNUAL MEETING SPEAKERS

Continued from page 21



Charlie Carter, President of A.I.S.C.

It was truly wonderful to have Charlie Carter in attendance! Mr. Carter’s presentation was committed to open questions and discussion. Mr. Carter has suggested that the AISC could help support the NISD by way of offering their webinar studio for production of steel detailing and modeling-based presentations, suggesting that the NISD pick a production plan to present to the ASIC, and negotiations would commence from there. Other questions and suggestions were regarding an ASIC/NISD joint committee, the Code of Standard Practice requirements for Complete Design Document and the current lack of industry compliance, the

AISC inclusion of NISD Certified steel detailers as part of the AISC Code and IBC Codes, recognition of the NISD QP program by the AISC, also possible joint membership discounts for membership. The thoughts and discussions on joint collaboration make the possibilities seem endless, though it was concluded that the webinar opportunity seemed the best place to start.

Greg Brawley

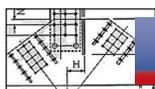
Industry Standard Presentation

Greg Brawley discussed the Framework for Business Management and the Project Delivery System as part of his Industry Standard presentation. For those of you who do not know, Mr. Brawley put together the original document for the Industry Standard and is currently in the process of updating this document.

The message shared by Mr. Brawley is that the Industry Standard defines a united self-preserving framework by which steel detailers perform their work. When steel detailers execute the Industry Standard means and methods, a standard of quality is introduced to the work, requiring then that the same working standard be supported by our clients. The documents for pre-production review and continued work execution provided in the Industry Standard are paramount to preventing arbitration and litigation. So much may be said and shared about the Industry Standard that this brief synopsis cannot do it justice, as the execution style alone separates the ‘wheat from the chaff’ for detailing steel.



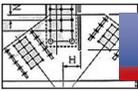
We thank all of our presenters for their contribution to a very successful and enlightening annual meeting!



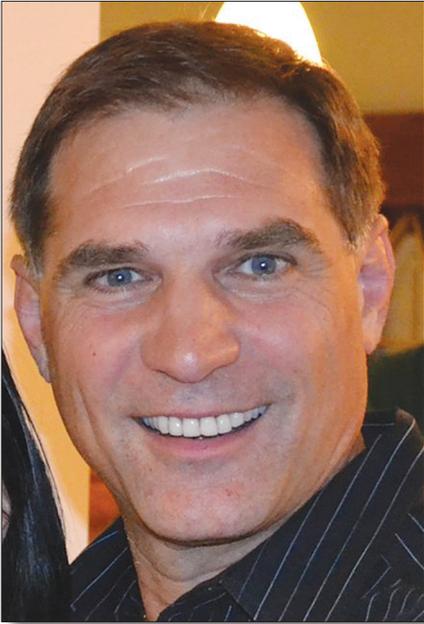
CALENDAR

Events are great ways to stay current on trends, and network with others. Join us for any of these events in 2018!

November 2-3, 2018	NISD Board Meeting – Chicago, IL
November 13-15, 2018	Autodesk University



In Memoriam – Thomas Michael Vossmeier

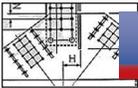


NISD member Thomas Vossmeier passed away on July 14, 2018 at the age of 58.

With his passing the steel detailing industry has lost one of its most dynamic and dedicated business leaders.

Tom was the founder of International Design Services and was the CEO of GIZA Design Software. He believed strongly in the NISD Individual Detailer Certification program and his company has 31 certified steel detailers.

We extend our condolences to all of his family and to his many friends and employees.



Meet the NISD Officers & Board of Directors

Continued from page 24

NISD Board of Directors Continued

Fred Tinker

Fred has over 55 years of steel detailing experience and has been a member of NISD since 1989. He was past president and owner of Pacific Drafting, Inc., in Long Beach, CA and has recently retired from the business.

Fred has worn many hats for NISD. He became a director in 1990, was past president of the California Steel Detailing Association of NISD, chairs the nominating committee and the Individual Detailing Certification program and was instrumental in updating the IDC program a few years ago. He is also certified in all disciplines of the IDC program. Fred is an associate member of AISC and a member of the American Welding Society.

Fred has been married to his wife Barb for 55 years and is the father of 6 children.

Contact information – ftinker@pacificdrafting.com or (714)842-3121



Benefits For NISD Members!

Visit *Your* NEW NISD Website...

Engage - Find us on Facebook...

We Are Your Voice...

The NISD Board of Directors was pleased with the feedback it has had from membership regarding new ways that NISD can help expand the scope of services for the benefit of members and the steel detailing industry!

Our new web site is contemporary, easy to navigate, and represents our members as a professional and knowledgeable organization.

Check it out!

Visit NISD.org



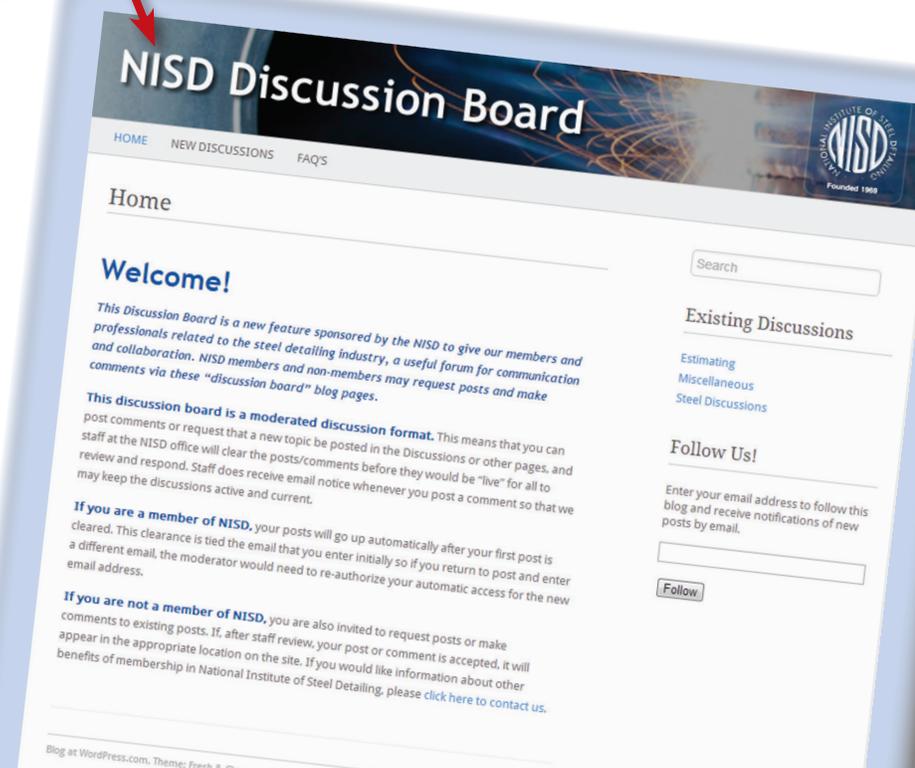
Networking Knowledge!

Our Discussion Board is a tool to allow sharing of knowledge and resources. Post your industry-related questions or comments. Receive responses from other professionals. Utilize your NISD membership network today!
nisdorg.wordpress.com

Find us on Facebook too!



www.facebook.com/NISD.org



Because NISD fosters a professional approach to business and advocates improved quality through member networking, education, and certification, our members are highly regarded by fabricators, architects, engineers and contractors.



Integrated BIM tools for steel detailing

Powerful tools to help you manage coordination and speed detailing

Whether you use Autodesk® Advance Steel, Revit®, Navisworks® or BIM 360®, the Autodesk® Architecture, Engineering & Construction Collection provides an essential set of tools at a great value.

Get all of the tools you need to collaborate with the design team and accelerate time to fabrication and construction.

OPTIMIZE STEEL DETAILING WITH CONNECTED BIM TOOLS:

1

CONNECT STEEL DESIGN AND
DETAILING WORKFLOWS

2

CREATE ACCURATE DOCUMENTATION
FOR STRUCTURAL STEEL

3

REDUCE WASTE AND OPTIMIZE
PRODUCTION

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