



Belt Line

A publication of NIBA-The Belting Association

Spread the Word: NIBA Scholarships Up for Grabs



NIBA is very pleased this year to offer 11 scholarships to eligible candidates to offset the cost of college education. These scholarships are rewarded to family members of employees and are made possible by the generous support of NIBA member companies. We thank them all!

Memorial Scholarship

NIBA's 2019 Memorial Scholarship awards six scholarships valued at \$2,000 each in memory of NIBA members for their dedication to the organization. Candidates should

be attending or planning to attend a two- or four-year college or university. Applicants will be graded on involvement in community, church, or school service. Leadership roles are also highly valued. Completion of an essay is required. Applications may be submitted online at www.niba.org/memorial-scholarship. *Application deadline: March 1.*

Presidential Scholarships

For 2019, the NIBA Presidential Scholarship will give five awards valued at \$4,000 each to deserving candidates pursuing their educational goals at a two- or four-year college or university. Applicants are assessed on academics, leadership, community and volunteer service, and asked to submit an essay on an assigned topic. The application can be submitted online at www.niba.org/presidential-scholarship. *Application deadline: May 1.*

Be sure to promote the NIBA Scholarships to your staff as one of the great benefits of our organization. To make it easy, NIBA has developed a flyer you can print out and distribute in your company. Download it from www.niba.org/promote-the-scholarships. ●

NIBA Scholarships are a benefit to all your employees!

- Pass the information along to your HR department.
- Print and display the Scholarships Flyer in a prominent place and email it to your employees.
- Include information in an internal company newsletter.
- Attach a note to your employees' paychecks.
- Post to company intranet, employee website, Facebook group or Twitter.



President's Message

Brian Schachner,
2018-19 NIBA President

January is upon us and there is a chill in the air. We have just wrapped up the Fall 2018 season, which was full of training. There was a class for lightweight belting basics, our first-ever lightweight splicing school, and a Track, Train and Troubleshoot (3T) for heavyweight belting. Each seminar was well attended and had a great amount of positive feedback for its content.

We recently asked supervisors of companies who sent employees to the Fall trainings what they thought:

"Trainers are exceptional. The hands-on activities are very beneficial for our employees"

"Excellent feedback, very worthwhile training"

"I've had excellent feedback from all my employees who attended the training, well worth it!"

I strongly encourage all member companies to consider sending your employees to one of NIBA's technical seminars in 2019. If you have not been able to attend or are interested in doing so for the first time and need more information, please contact the NIBA office.

Our Education and Technical Committee has really helped maintain the technical programs and helped give the trainers the support they need to be on top

Continued on page 3

Benefits of Static Conveyor Design with Belt Elasticity

by Tim Wolf, VP Engineering, Precision Pulley and Idler

Most static conveyor design methods consider the belt to be a rigid member. All conveyor belts have elasticity and stretch when put under tension. Long, complicated or critical conveyors may warrant an investment in dynamic conveyor design models, which includes the belts elasticity in the tension model. It is possible to include belt elasticity in static conveyor design models with a number of significant benefits. Including belt elasticity in static belt tension calculations improves take-up travel selection, improves belt tension estimates, allows design of much longer manual take-up conveyors and provides a simple way to quantify belt tensions created when setting manual take-ups.

Conveyor belts elastically stretch when pulled in tension and relax again when released. Belt manufacturers publish the value of this trait as a spring modulus. Including this elastic characteristic in static calculations is an improvement to the calculations.

CEMA Belt Conveyors for Bulk Materials, 7th edition, Table 6.114 gives wrap factors for automatic and manual take-ups. Manual take-up factors are higher to compensate for the loss of slack side tension when the belt stretches from power applied by the motor. The approximate 0.3 difference between manual and automatic take-up factors can

be corroborated when including belt elasticity in the calculations of a typical conveyor profile. This differential varies with conveyor profile and belt modulus. By including these variables in the static analysis, an improved estimate can be made.

It is helpful to define a new belt tension variable, T_s , for when the conveyor is

Common Pulley Wrap Factors, C_w for Rubber Belt Covers					
Type of Drive Pulley	Wrap Angle Θ_n (deg) ⁽³⁾	Automatic Takeup		Manual Takeup	
		Bare Pulley	Lagged Pulley ^(1,2)	Bare Pulley	Lagged Pulley ^(1,2)
Single, no Snub	180	0.84	0.50	1.20	0.80
Single with Snub	200	0.72	0.42	1.00	0.70
	210	0.66	0.38	1.00	0.70
	220	0.62	0.35	0.90	0.60

(1) For wet belts and smooth rubber lagging use bare pulley factors
 (2) For wet belts and grooved rubber lagging use lagged pulley factors
 (3) If wrap is unknown assume: Single with no Snub $\Theta = 180$ degrees, Single with Snub $\Theta = 210$ degrees

Figure 1: Table 6.114 from *CEMA Belt Conveyors for Bulk Materials*

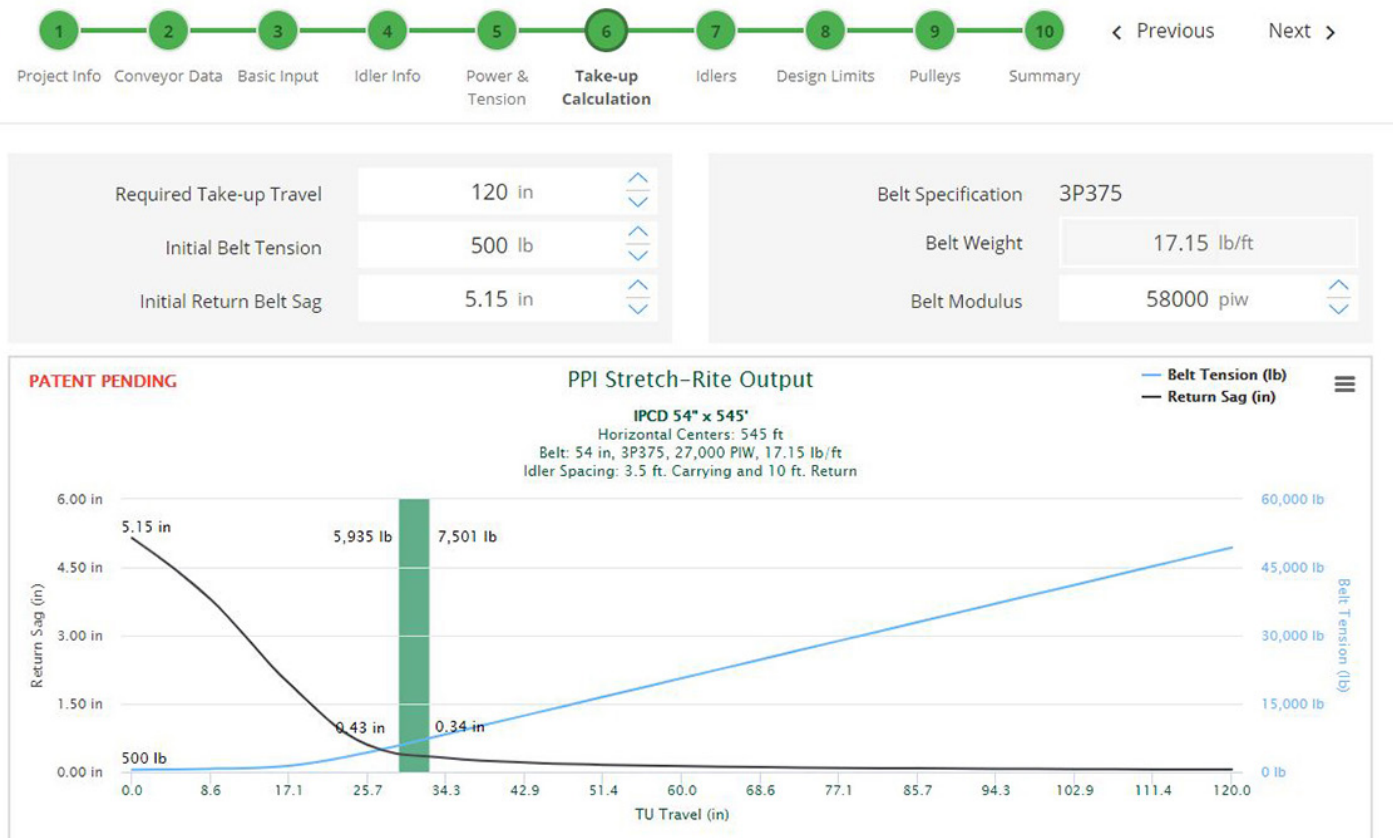


Figure 2: Example of take-up selection and setting procedure output

Static Conveyor Design from page 2

stationary and the manual take-up has been set. This is the manual take-up setting in CEMA's Table 6.114. When the conveyor is running the motor adds tension to the carrying, T1, side of the belt, causing it to stretch. This stretching results in relaxation of the belt's slack side and its tension, T2, becomes lower than the initial stationary tension, Ts. This difference increases as the motor supplies more power. Too low of slack side tension, T2, results in drive slip or excessive belt sag.

Manual take-up travel lengths have typically been selected with a general rule of about 2% of conveyor length. This provides enough travel for fabric belt elastic and permanent stretch, as long as excess sag is controlled when stringing the belt. Using this rule, commercially available take-up travels tend to limit manual take-up conveyor lengths to a maximum of 150-200 feet. Above these lengths, designers currently transition to automatic take-ups. Including belt elasticity in static calculations gives the designer a better understanding of the take-up travel necessary. This allows the designer to safely select shorter take-up travels than the 2% rule of thumb suggests and confidently design manual take-up conveyors well beyond 200 feet while still using commercially available manual take-up travel lengths.

Extremely long manual take-up conveyors have been successfully designed and built,

including ones from 250 feet all the way up to multiple miles in length. Including belt elasticity in the static calculations has provided insight into how this has been possible.

Manual take-up conveyors are often preferred because they tend to be simple, compact, economical, safe, and easier to maintain than automatic take-up conveyors. The primary challenge is controlling the belt tensions created when setting the take-up. An insufficient stationary tension, Ts, can result in too low of slack side tension, T2, and the result could be drive slip or excessive belt sag. Excessive stationary tension, Ts, can result in short life of splices, pulleys, bearings, and other components. There have been many attempts at adding load-sensing features to manual take-ups including many different sensors, strain gages, springs and torque-measurement devices. Thus far, these have seen limited success for two reasons: 1. Manual take-up conveyors are chosen to keep things simple and these tend to add complexity. 2. Conveyor users tend to come up with experienced-based methods for setting take-ups that work for them.

The difficulty is experience based methods can be sensitive to changes. Changes in belts, pulleys, bearings, splices, belt stringing methods, and different conveyor design philosophies between areas of the property can all result in methods that worked for years suddenly having problems. To quantify belt tensions created when setting manual

take-ups, a simple procedure is possible by including belt elasticity in the static tension calculations and correlating it with a simple belt sag observation. This results in a simple method that takes the guess work out of setting manual take-ups.

The addition of belt elasticity in static conveyor design calculations are a significant improvement over currently available static design methods. Including belt elasticity gives conveyor designers additional options to become more creative and competitive with the use of more manual take-up designs. It also gives conveyor users better options for quantifying the set up and maintaining their manual take-up conveyors. ●



MAKE THE MOST OF YOUR MEMBERSHIP!

- Download the NIBA member logo.
- Access technical articles.
- Download resources.

Sign in at www.niba.org

President's Message from page 1

of their game. This has been fueled by the NIBA staff and an energized training group. A big thank you to Flexco and Shaw Almex Industries for their continued support as technical seminar hosts.

In 2019, NIBA is staying focused on bringing value to our membership. We recently invested in new technology, including a refreshed NIBA.org, which will be easier to navigate and search, easier to read on mobile devices, and more functionality on the back end for member profiles. Check out the Info Hub and let us know what you think!

We will be having our Winter

meetings a little later this year at The Gaylord National in National Harbor, MD (Washington DC) in early March. This will give our volunteer leaders a chance to experience the hotel and prepare for an outstanding convention scheduled for September 2019. We are thrilled to build on a lot of positive momentum from NIBA 2018 and to deliver another memorable experience in DC!

Remember our renewals for membership have started, so please contact the NIBA office with any questions or concerns. We hope that our retention rate, as well as the ability to draw new members, stays relatively strong in 2019. Please help encour-

age those belt companies that are not part of our great organization to join!! We also greatly appreciate any donations to the scholarship and memorial funds as part of your renewal to support ongoing programming. ●

"We recently refreshed NIBA.org, making it easier to navigate and search, easier to read on mobile devices, and have more functionality on the back end"



Track Train and Troubleshoot Workshop Heads West to Seattle

by Dick McConnell

This past October, Track Train and Troubleshoot (3T) was taken to the west coast for the first time. A sold-out group of NIBA member employees, conveyor OEMs, and quarry personnel participated in this pro-active exchange of conveyor operation.

In its 15th year, 3T remains a draw, contrasting the first day's interactive training on industry standards, followed by a second day site visit of an operating quarry for real-world conveyor operation. This fall, the event was in Seattle and the plant at Cal-Portland in Dupont, WA. The member attendees were well-represented with companies including Rema, Belterra, Applied Industrial, Beltservice, Sparks, Asgco, Luff, Apache, U.S. Rubber, Flexco, Almex, and MeinersMG. In addition, the host quarry invested in two seats with their operations personnel and conveyor OEM, Rapat Corp, also had two join the class. Everyone engaged in discussion on belt construction, operational forces, transition distances, operating versus rated PIW, belt splicing, and belt tracking. Using conveyor work sheets, the class then visited the operating quarry on the second day to observe the real-world conveyor operation. The seminar concluded back in the classroom, contrasting standards with real-world operation. The participants were pro-active and the discussion lively.

All involved would like to thank NIBA members who support this valuable training event. Without your participation, the exchange of ideas and the filled classes could not be possible. A special thanks to those member organizations who continue to support the activity of the facilitators: R K Rubber, Fenner Dunlop, Almex, and Flexco.

Plans are underway for the next Track Train and Troubleshoot event proposed for Atlanta, GA in early May of 2019. ●

Grand Rapids Hosted Two Sessions and Four Days of Lightweight Splicing

by Pam Hill

Twenty-three trainees attended NIBA's Key Principles and Best Practices of Lightweight belting course October 8 and 9 in Grand Rapids, MI. This new and improved curriculum is for anyone who is interested in learning more about lightweight belting. Topics ranged from belt construction to assorted fabrications with a blend between classroom interaction and hands-on demonstrations. Immediately following was NIBA's 2-Day Lightweight Belt Splicing School on October 10 and 11, in Grand Rapids, MI, attended by 13 trainees. Participants learned all aspects of selecting and installing the appropriate mechanical or endless splice for customer applications from experienced trainers. In evaluation results from both seminars, 95%+ said they would recommend these programs to others. Both schools will be available again in 2019. ●



Correction from the Fall Belt Line

The top three runners of the 2018 NIBA Fun Run/Walk were: Jason Shaw, Shaw Almex; Scott Frenz, Fenner Dunlop Conveyor Belting; and Alexandrine Sylvain, Rematech.



Go for the GOLD!

Each year, NIBA awards educational scholarships to children of parents employed by NIBA member companies.

Show your commitment to education - Contribute to the annual NIBA Scholarship Fund TODAY!

Gold: \$800 or more.

Silver: \$400-\$799

Bronze: Up to \$399

MEMBER-TO-MEMBER NEWS

News submitted by and for NIBA members

EVENTS

Nitta Corporation of America (NCA) is proud to announce the recent launch of its new blog series, featuring stories on applications, products and other topics of interest, written by NCA's highly knowledgeable staff along with other Nitta experts from around the world. NCA invites readers to follow this ongoing feature for an informative look at Nitta, its approach to the belting market and its experiences within the industry. Read it at: <https://www.nitta.com/>.

NEW FACILITIES

Chiorino America is pleased to announce a major investment in the U.S. market, with the opening of a new location in the Atlanta area. The new 52,000 squarefoot facility, located in Suwanee, GA, will become the central stocking and fabrication location, as well as the new company headquarters for Chiorino in the Americas. The company is in the process of recruiting a number of key management positions, as well as customer service, technical support, and fabrication employees, all based in the new Suwanee location.

AFM Industries is delighted to announce they have expanded their operations by opening a new branch in Kitchener, Ontario. This expansion will allow AFM Industries to offer conveyor belting solutions to its wide range of clientele in the Ontario region with greater ease and to continue building its outstanding reputation in the conveyor belting industry worldwide.

Quality Conveyor Solutions, LLC has opened its sixth branch. Locations now include: Roanoke, VA, Richmond, VA, Covington, VA, Baltimore, MD, Kingsport, TN, Rocky Mount, NC.

NEW PRODUCTS

REMA TIP TOP has developed a new Performance line of the industry standard REMAGRIP that can withstand extreme operating conditions while providing the service life and reduced maintenance costs expected on a REMA TIP TOP product. Engineered and manufactured in Germany with the REMA TIP TOP dedication to quality and excellence, the new PERFORMANCEGRIP 70 products include pulley

lagging and strip lagging. A 61% increase in abrasion resistance, from 100 to 39 mm³, and a 65% improvement in tear growth resistance, from 17 to 28 N/mm, makes PERFORMANCEGRIP 70 the industry leader for pulley lagging.

Many situations in bulk handling require material to be separated to different transfer points or receptacles. **ASGCO's** new Lift Bed – Diverter Plow is specifically designed to handle that task, and at a more cost-effective price than a traditional tripper conveyor. The Lift Bed – Diverter Plow™ is a pneumatically operated impact bed that lifts the conveyor belt from full trough to zero (0°) into a stationary diagonal plow. The urethane diagonal plow, which includes two Spring-shoc™ tensioners, enables the lift bed to apply the proper tension and not pinch or damage the belt. This increases production and allows the belt to experience a limited amount of stress, eliminating the opportunity for premature wear and stretching.

Flexco recently announced the addition of the PT Max™ Adjustable Belt Trainer to its line of Belt Conveyor Products. The adjustable version of the popular PT Max retains the same features of the PT Max – the patented pivot and tilt design and stainless steel pivot bearing – but now has more flexible mounting options and is supplied with idlers included. The PT Max Adjustable no longer requires data sheets, as each trainer has horizontal and vertical mounting adjustment, as well as trough angle adjustment on the topside, that allows it to fit nearly any structure.

MERGERS & ACQUISITIONS

Bearing & Drive Solutions (BDS)

recently merged with Reading Electric, helping facilitate the already established and reputable repair services available through Bearing & Drive Solutions. Combined, the two organizations present 13 locations of distribution, three electrical and mechanical repair shops, G3 Automation (the BDS Automation and Panel Building Division), Talon Bearing (The Asset Recovery Group), and Sealing Specialties (Sealing for Industry). In all, Bearing and Drive Solutions will now be home to over 200 employees, thus

edging BDS to quite possibly be the largest independent distributor in all of the north-eastern United States.

PERSONNEL

Belt Power LLC is pleased to announce that Don Heitmeier has been appointed President, Chief Executive Officer and director of Belt Power. Heitmeier has over 30 years of distribution experience with two of the leaders in the wholesale distribution space.

AFM Industries sends warm wishes to Jeff Hobson as he embarks on the next chapter of his life. "We are honored and proud to have had the opportunity to work alongside Jeff for so many years. From his unmatched sense of humour to his unwavering commitment, Jeff is truly one of a kind and has been instrumental in establishing our business. We are truly grateful for Jeff's many years of service and his presence will surely be missed. Thank you and all the best!"

Industrial Supply Solutions, Inc.® is proud to announce the promotion of Ed Willenbrink to Vice President – Operations. Ed joined the ISSI® team in January of 1999. He originated the Wilmington, OH branch.

Hyde Industrial Blade Solutions (IBS) announced that **Michael Castner** of Harrisburg, PA, has been appointed to the position of Vice President of Sales. In this role, Castner will oversee Hyde's national sales force assisting companies and distributors by providing more productive cutting and processing solutions.

After 25 years of excellent service at **American Biltrite**, **Ward Williamson** retired this summer. Nick Sabatini joined the team to take over as Regional Sales Manager for Ontario and Western Canada. Sales agent **Pierre Bineau** continues to cover Québec and the maritime provinces for American Biltrite.

Jean Vavrek also joined the American Biltrite team as Market Manager for the mining industry. Vavrek held several management positions at ABB in Montreal and Sweden.

WE WANT YOUR NEWS!

Send to staff@niba.org or complete the form at niba.org/members/submit-news

Tracey Lancaster has been promoted to Marketing Manager. Tracey has been with American Biltrite since 2009.

American Biltrite also welcomed a new marketing coordinator, **Tessa Trott**, to support sales activities and increase overall visibility in the market.

Chiorino America is pleased to announce the following staff additions: **Bill Hornsby** as Vice President of Marketing, taking on responsibility for overall marketing activities, customer service/technical support, and inventory management; **Emily Wright** as Human Resources Manager; **Joe Rutledge** as Sales Representative responsible for Chicago, IL.; **Daniel Hunning** as Sales Representative responsible for MO, IA, NE, KS.

Martin O'Neill has been appointed Senior Director of North American Sales and Global Strategic Accounts at **Flexco**. In this new, expanded role, O'Neill will provide leadership and coordination of all sales resources in North America, including Territory Managers and Transfer Chute Field Application Specialists, and will continue to provide strategic leadership for Global Strategic Account resources.

RECOGNITION

Motion Industries, Inc. is pleased to announce that **Ellen Holladay**, Senior Vice President and Chief Information Officer,



was named recipient of the 2018 PTDA Foundation's Wendy B. McDonald Award.

To encourage more women to enter the power transmission/motion control distribution industry, the Wendy B. McDonald Award celebrates the women who not only excel at what they do but also bring innovation to their companies and the industry.

Holladay joined Motion Industries in 1990 as Manager of Systems Planning, and has since led the development of Motion's highly refined supply chain capabilities. ●



NIBA registration discount for UID

Since 1994, the University of Innovative Distribution has been a renowned educational program focused on the unique needs of the wholesale/distribution industry. This year, the 2019 program will be held in Indianapolis, IN, March 10-13.

As a UID sponsor, NIBA extends a \$1,000 registration discount to all its members. Review available courses and complete your registration at <https://www.univid.org>.

NIBA Membership at a Glance

The Numbers

Manufacturers	114
Distributor/Fabricators	138
Affiliates	17
Total members	269

Our Newest Members

- **Beltco Services** (D/F)
- **Converge Engineering** (D/F)
- **Industrie Tessili Bresciane S.R.L.** (M)
- **Labris Madencilik vs San. LTD.** (D/F)
- **OB&E Supply Co.** (D/F)
- **Pro Belting LLC** (D/F)
- **Quality Conveyor Solutions** (D/F)
- **Speedbird Supplies LTD** (D/F)
- **Systems Enterprise Corporation** (D/F)
- **Trelleborg Slovenija DOO** (M)
- **Whitford Corporation** (Affiliate)
- **Zhejiang Sanwei Rubber Item** (M)

Investment Notice

At the NIBA 2018 Annual Business Meeting (ABM) in Phoenix, there was a section of the presentation on investment activity. The presentation slide was intended to show the breakdown of investment activity for both the operating and scholarship funds.

In my role as the Immediate Past-President of NIBA, and as Treasurer when the current Investment Policy was approved by the Board, I would like to reiterate our investment policy and to provide a more detailed breakdown for further clarity. Overall, we are committed to a low risk approach to investing.

Investment policy (approved June 13, 2015):

Goals and asset mix of operating fund

- The goal of this portfolio is to protect and maintain three months of average operating expenses in liquidity for business needs while earning market interest rates
- 100% of the funds are in a low-risk money market checking account

Goals and asset mix of reserve fund

- The primary objective of the portfolio is to create income from a diversified portfolio of fixed income and equity assets, following the guidelines and restrictions of this policy, to support the growth and operations of NIBA
- 40% of the funds are in cash equivalents, 35% in fixed-income securities, and up to 25% maximum in mutual funds

The scholarship operating and reserve funds are managed in the same way as the operating and reserve fund breakdowns.

NIBA's investments are managed by Wintrust Wealth Management and are reported by staff to the Executive Committee on a monthly basis as part of the Treasurer's Packet.

Please feel free to contact me, or current Treasurer John Grasmeyer, directly with any questions or concerns.

— *Bill Hornsby, NIBA Immediate Past-President*

RENEW

Have you renewed your company's 2019 membership? It's easy!

Attention primary member contacts — Follow these steps to quickly and easily renew your company's NIBA membership:

1. Sign in at www.niba.org.*
2. Click on My Info.
3. Choose Related Businesses to review your company's membership dues history and enter data for 2019.

NIBA staff will review the 2019 data you provide and you will receive an invoice for payment soon after.

Annual Go for the Gold!

Thank you to these companies for their contributions to the NIBA Scholarship Fund in 2018

Gold Sponsors

(Contribution of \$800 or more in 2018)

AFM Industries
American Biltrite
Ammeraal Beltech North America
Belt Power LLC
Beltservice Corporation Fenner Dunlop Conveyor Belting
Flexco
Green Rubber - Kennedy Ag
Industrial Supply Solutions Inc
Nashville Rubber & Gasket Co Inc
Nitta Corporation of America
Norwesco Industries (1983) Ltd
Passaic Rubber Company
Reichel-Korfmann Co Inc.
Shanghai YongLi Belting Co Ltd
Uniband USA

Silver Sponsors

(Contribution between \$400-\$799 in 2018)

AccuPad Inc
Accurate Industrial Inc.
Advanced Flexible Composites Inc. (AFC)
All-State Belting LLC
ASGCO - Complete Conveyor Solutions
BEHA Innovation GmbH
Derco B V
ERIKS North America, Inc.
Fabricated Extrusion Company, LLC
Friesen's Inc. - Conveying Solutions
Gates Mectrol Corp

Habasit America
Quality Belt Maintenance (QBM), Inc.
R/W Connection Inc
RGA - Rubber & Gasket Co of America
Southwest Rubber and Supply Co Inc
Sparks Belting Company
Universal Belting Resource
Vaughn Belting Company Inc
WAGENER Schwelm GmbH & Co
WCCO Belting Inc
William Goodyear Company

Bronze Sponsors

(Contribution of \$399 or below in 2018)

AirBoss Engineered Product Inc
Applied Industrial Technologies
Applied Power Products Inc
Belt Tech Industrial Inc
Benetech
Bullitt County Belting & Supply
Canadian Bearings Ltd
Conveyor Belt Service Inc.
Conveyors & Equipment Inc
Dunham Rubber & Belting Corporation
Great Lakes Belting & Supply Corp

Maxi-Lift Inc
Megadyne Group Companies
Midwest Rubber Service & Supply Co
Mulhern Belting Inc
Power & Rubber Supply
Qingdao Huaxia Rubber Industry Co., Ltd.
R.J. Tricon Co., LLC
Ram Belting Company Inc
REMA TIP TOP - NA
Richwood
Rubber & Plastics Inc
Sampla Belting
Snake River Supply Inc
Virginia Carolina Belting
VIS USA LLC
Volta Belting Technology Ltd
Voss Belting & Specialty Company

COMMIT TO EDUCATION!

**Contribute to the NIBA Scholarship Fund at
niba.org/scholarships/contributions/**



President's Club

Once the cumulative company contributions reach \$1,500, they are enrolled into the President's Club

AccuPad Inc
Accurate Industrial Inc.
Advanced Flexible Composites Inc (AFC)
AFM Industries
AirBoss Engineered Product Inc
All-State Belting LLC
American Biltrite
Ammeraal Beltech North America
ASGCO - Complete Conveyor Solutions
Atlanta Belting Company Inc
BEHA Innovation GmbH
Belt Power LLC
Beltservice Corporation
Blair Rubber Company
Bullitt County Belting & Supply
Canadian Bearings Ltd
Chemprene Inc
Chiorino America, Inc.
ContiTech - USA, Inc
Conveyor Accessories Inc
Conveyor Belt Service Inc.
Conviver Co Inc
Derco B V
Dunham Rubber & Belting Corporation
ERIKS North America, Inc.

F. N. Sheppard & Co
Fenner Drives Inc
Fenner Dunlop Conveyor Belting
Flexco
Forbo Movement Systems Transtex Belting
Forbo Siegling LLC
Friesen's Inc-Conveying Solutions
Gates Mectrol Corp
Great Lakes Belting & Supply Corp
Green Rubber - Kennedy Ag
Habasit America
Industrial Rubber Specialties Inc
Industrial Supply Solutions Inc
J A Emilius Sons Inc
Jerry Bros Industries Inc
Knoxville Rubber & Gasket Co
Maxi-Lift Inc
McLeod Belting Co Inc
Midwest Rubber Service & Supply Co
Motion Industries Inc
Mulhern Belting Inc
Nashville Rubber & Gasket Co Inc
Nitta Corporation of America
Novex Inc
PANG Industrial

Passaic Rubber Company
Power & Rubber Supply
Quality Belt Maintenance (QBM), Inc.
Ram Belting Company Inc
RAM Enterprise Inc
Reichel-Korfmann Co Inc.
REMA TIP TOP - NA
RGA - Rubber & Gasket Co of America
Rubber & Accessories Inc
Sampla Belting
San Antonio Belting & Pulley Co Inc
Shanghai YongLi Belting Co Ltd
Shaw Almex International Headquarters USA
Southwest Rubber and Supply Co Inc
Sparks Belting Company
Thaman Rubber Company
Uniband USA
Universal Belting Resource
Vaughn Belting Company Inc
Virginia Carolina Belting
VIS USA LLC
Voss Belting & Specialty Company
WAGENER Schwelm GmbH & Co
William Goodyear Company



NIBA-The Belting Association
22 N Carroll St, Ste 300
Madison, WI 53703



LIVE!

SPRING 2019 TECHNICAL TRAINING SEMINARS

**Vulcanized and Mechanical
Heavyweight Splice Training**
April 9-11, 2019
Decatur, GA

**Key Principles and Best Practices
of Lightweight Belting**
April 30-May 1, 2019
Grand Rapids, MI

**Track, Train, Troubleshoot for
Heavyweight Belting**
May 1-2, 2019
Decatur, GA

Register at www.niba.org

*Plan now
to attend*



NIBA'19

September 18-21 Washington, DC
Capitalize on Our Strengths

**Watch for registration
to open in April**

