

A Tribute to Daniel B. Jones

It was with sadness we learned of the death of Daniel B. Jones, President of Incomotion Associates. Dan died on September 1, 2020, at his Thousand Oaks, CA home, surrounded by family. Many of the condolences received by the family describe Dan as an industry icon. Dan has participated in the electric motor industry for over 60 years. His involvement started with his mother who was a production manager for an electric motor company in the 1950's, making Dan a second generation electric motor man.



Dan was recognized as an international authority on electric motors and motion control. He was hired by the Korean government to teach engineers motor design. He was known, taught and had clients in China, Japan, Korea, Taiwan, Hong Kong, working with engineers from India, the Middle East and all over Europe as well as North and South America. He authored over 200 technical articles and papers covering technical designs, market trends, etc. in electric motors and motion control.

He was a valuable contributor to industry trade shows and gatherings. He was often asked to chair technical sessions in trade shows around the world. He rarely declined. The list of his membership in professional organizations, where he was often a board member, is impressive:

Until recently a member ASME, Member IEEE, Member AIME

- Advisory Board PCIM Exhibition and Conference Member 1985 - current
- PCIM European Exhibition and Conference Member 1989 - current
- AIME President 1998-1999
- MCA Board of Director's Member 2007 - current
- Member of Board of Directors for AIME 1994 - current
- Advisory Board Member for SMIC (Japan) Conference 1992-2002
- Member of Board of Directors of SMMA (Small Motors and Motion Association) 1999 - 2007
- Member of NEMA Technical Standards Review Committee for Servos and Step Motors 1997 - current
- Member of UK Drives and Controls Conference Advisory Board 1999 - 2002
- Member of UL 1004 Standards Technical Panel 2004 - Current

He was a rarity in the industry who knew the technology well enough to design motors as well as understanding how motors worked in a broad range of applications and markets. He held positions of chief engineer as well as VP of Marketing for motor companies. Early in his career Dan designed a motor that went to Mars in a NASA exploratory mission. As a consultant he stood in as chief engineer when companies

needed help, quickly. As a consultant and employee his mark is on over 100 important motor designs.

He was an avid softball player in to his early 70's. He was deservedly proud of his abilities to help his seniors team win on the field. He traveled all over the United States to play competitively. He was part of history and bible study groups participating with his many friends and church congregants.

His contributions to the industry are legendary. But Dan's most extraordinary contribution was

his openness and generosity to everyone who asked for his help. He willingly and enthusiastically became a teacher and mentor to up-and-coming engineers. He helped and advised seasoned engineers looking to start up their own consultancies, even as they would become competitors to his own consulting business.

The Japanese said Dan had a 'wide face'; an indication of someone well known and well respected in an industry. He was devoted to his family and his faith. He never had a harsh word for anyone. He was a fine man and truly an industry icon. He will be sorely missed.

Dan died of natural causes. He was 84 and is survived by his wife Janice of 60 years and his children Matt, Tom and Sue, 12 grand-children, 7 great grand-children and will join his daughter Jennifer in heaven.

Submitted by George Gulalo, MTT

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Maxon and ANYbotics

COLLABORATE ON ROBOTIC DRIVE SYSTEMS

Drive specialist Maxon, renowned for its Mars motors, is joining forces with the robotics startup ANYbotics and will in future supply the drive systems of the autonomous ANYmal inspection robot. The robot will soon be marketed in large quantities. This cooperation will also benefit Maxon, since ANYbotics provides important robotics know-how and is



currently the most successful young company in this field.

A solid partnership: Maxon and ANYbotics are entering into a close, long-term collaboration and are thus strengthening Switzerland as a prime location for robotics. One of the decisions made by the two partners is that Maxon, as global

drive specialist, will handle the future development and production of the actuators for ANYmal. ANYmal is an autonomous, four-legged robot that is capable of inspecting and monitoring industrial systems and is destined to also take on dangerous maintenance tasks in the future. The robot can even cope with difficult infrastructures such as stairs and inclines, and is used in a wide variety of industries.

The Maxon Group contributes 60 years of experience in drive technology to the partnership, as well as a global production infrastructure and validated processes, and will help to advance the industrialization and commercialization of ANYmal – with competitive, high-performance drive systems, twelve of which are used in each robot. “In Maxon, we have found the ideal partner for taking care of our drive technology as we transition from small series to mass production. With Maxon’s expertise and infrastructure, we will be able to further optimize a core element of our robots and access state-of-the-art production methods,” says Péter Fankhauser, CEO of ANYbotics.

ANYbotics recently won the Swiss Economic Award 2020 and has been chosen as the best young entrepreneur in Switzerland in the Hightech/Biotech category. The company has valuable experience in robotics – a market that offers great potential for Maxon. Eugen Elmiger, CEO Maxon Group, says: “By collaborating with ANYbotics, we are merging know-how from different worlds. The creativity and high responsiveness of a startup are paired with the global and stable industrial environment of the Maxon Group. Together we will create an energy-efficient and intelligent robotic drive, the likes of which has never been seen before.”

To further cement the partnership, the two companies are also getting closer geographically: Maxon, which has its headquarters in the canton of Obwalden, is opening a lab at the Zürich Campus in the Oerlikon district of Zurich, in close proximity to ANYbotics. Here the engineers and technicians will meet to discuss the progress on their projects. Additionally, Maxon wants to use the lab to get even closer to ETH Zurich and the University of Zurich, offer technical support to young engineers, provide workspaces, and get talent on board.

Elmiger adds: “We are already heavily involved with vocational education in and around Zurich and Lucerne. With the new lab, we will be in an even better position to support talents in drive technology and robotics.” (www.maxongroup.com)

SKF and University of Twente

OPEN STATE-OF-THE-ART TECHNOLOGY CENTER

SKF and the University of Twente which have collaborated for over 30 years have launched a dedicated SKF University Technology Center (UTC) for grease lubrication in rolling bearings.

“Around 80% of industrial bearings are grease-lubricated,” says Professor Piet Lugt, SKF’s senior scientist. “There are clear benefits to be gained from a greater understanding of



the characteristics and behavior of lubricant greases and their application.”

SKF has a number of collaborations with leading technical universities around the world. Professor Lugt has been a part-time professor at the University of Twente since 2011.

His teaching and research focus on bearing failure mechanisms and life prediction, two key areas which are central to helping bearing users to get a better performance from their machinery. He has won a number of academic and industry awards and is author of the definitive book *Grease Lubrication in Rolling Bearings* (2013, Wiley & Sons).

Twente’s Professor Dik Schipper, who will act as UTC director, comments: “Research at the University of Twente in recent years has increased our understanding of the role of grease in bearings. With this knowledge we can reduce energy losses and increase the lifetime of grease lubricated contacts that contributes to a more sustainable society.”

SKF’s Professor Lugt concludes: “Bearings often operate in tough environments and combined with varying speeds and loads, extra demands are placed on the grease. By understanding how the environment affects the grease in our customer’s machines, we can make them run longer.” (www.skf.com)

ABB

NAMES NEW PRESIDENT OF US MOTORS AND GENERATORS DIVISION

ABB’s Motors and Generators division has named Jesse Henson president of their US business.

Henson, who has been with the company for 23 years, leads the team responsible for marketing, designing, and manufacturing ABB and Baldor-Reliance industrial electric motors in the United States. Henson will also continue to be

the global head of the NEMA motors product group.

“I am honored to lead the US industrial motor business,” said Henson. “Taking care of customers is in our employees’ DNA, and we work hard every day to earn our customers’ business and their preference for our motors. I am committed to maintaining that focus and investing for the future.”



Henson started his career with the company (Baldor Electric Company at that time) in 1997 as part of the drives and motion control team. His customer-first approach has been critical to his success in roles in product management, marketing, and sales. His broad experience across both motors and drives provides a strong level of understanding of customer and application needs as well as buying preferences in the US market. (www.abb.com)

NTN's Kevin Judge

INDUCTED INTO FEDERATED AUTO PARTS VENDOR HALL OF FAME

NTN is proud to announce that **Kevin Judge**, vice president, sales and marketing — automotive aftermarket, has been announced as the 2019 inductee to the Federated Auto Parts Vendor Hall of Fame. This honor was announced during the The Group's recent Annual National Conference and Expo, which took place virtually and featured a virtual happy hour to celebrate Judge and other award winners.



The Hall of Fame award announcement from Federated stated, "Kevin Judge has worked with Federated members almost from the start in a variety of different positions for multiple supplier partners. His counsel and support has been extremely valuable to many members and is a great example of this awards intent. Kevin can always be counted on to provide insight and expertise about a variety of topics and is a valued partner to Federated members."

"We are proud of Kevin for achieving this honor," remarked Pete Eich, president and CEO of NTN Bearing Corporation of America, "This is not a company award for NTN, it is instead recognition of Kevin as a longstanding, respected fixture in the automotive aftermarket. This award is very well deserved for the contributions Kevin has made to the success of NTN and our valued customers like Federated Auto Parts."

According to Federated, the Vendor Hall of Fame is an honor established by Federated members since 1985 to honor the vendor partner who has contributed to the success of Federated members. The award recognizes an individual who has gone above and beyond to offer advice, guidance, and support to the membership. The award recognizes efforts that may go beyond the scope of a job assignment and focuses more on the relationship with the individual.

Judge has worked in sales, marketing and management roles in the automotive aftermarket for over 40 years. In his tenure with NTN he has been key to the establishment of NTN's automotive aftermarket business unit and the growth of NTN's aftermarket brands; BCA Bearings for automotive and Bower Bearings for Heavy Duty Truck. (ntnamerica.com)

Poggi

ENHANCES CAPABILITIES WITH PHOTOVOLTAIC SYSTEM

A network connected photovoltaic system, with a unit capacity of 394.52 kWp was recently installed at Poggi Trasmissioni Meccaniche S.p.a. The system, connected to the network and installed on the roof of the company, consists of 1,409 modules of 280 W and, according to the appraisal made by SIAT technicians, will have a production capacity of 459,853 kWh/year.



This will allow Poggi Trasmissioni Meccaniche S.p.a. to reach a significant energy saving and to consequently devote larger resources for research in the field of transmission parts. This activity has always distinguished the company through the design of leading-edge solutions, capable of bringing innovation to the sector. Current examples of this capability are P-drive, a range of low-noise and high-performance synchronous pulleys and belts and the P-gear concept, motion transmission system with non-contact gears, applied in the field of bevel gearboxes and reducers.

"We are very proud of the project," said Andrea Poggi, president of the company. "The investment in photovoltaics reflects a radical commitment to sustainability, a responsibility towards the environment that will continue to characterize our history also in the coming years through choices and strategic decisions aimed at maximizing the use of renewable resources and energy." (www.poggispa.com/?land=en)

Bosch Rexroth

ANNOUNCES MANAGEMENT CHANGES

Paul Cooke, president and CEO of Bosch Rexroth North America, based in Charlotte, NC, USA, will retire on December 31, 2020 after 38 years of distinguished service in various international positions within Bosch Rexroth.



His successor as of December 1, 2020 will be **Greg Gumbs**, most recently vice president and general manager electrical automation solutions at Eaton Corporation. Gumbs will join Bosch Rexroth effective September 1, 2020 in preparation for his future responsibility and will be based at Bosch Rexroth

North American headquarters in Charlotte, NC.

After completing his degree in electrical engineering, Gumbs started his professional career in 1997 as an application engineer in the Global Technical Service Group of Rockwell Automation, Inc. He later held various drive systems engineering, sales, marketing, services and management positions within Rockwell before taking over as director commercial sales support and market development.

In 2007, Gumbs joined the Eaton Corporation Industrial Sector as vice president sales Americas for hydraulics business. In 2013, he became general manager for the hydraulic hose and fittings business. In 2015, he moved to Eaton electrical sector as vice president and general manager of Eaton Electrical Automation Solutions.

“Bosch Rexroth is an amazing organization with a bright future given the strong foundation of technology leadership and customer focus. I am honored to join the Bosch family and looking forward to leading this talented team forward in close partnership with our channel partners,” said Gumbs.

In addition to an electrical engineering degree from DeVry University, Gumbs obtained his MBA with a focus on Leadership and Global Business Management from Weatherhead School of Management at Case Western Reserve University. (www.boschrexroth-us.com)

Motion Industries

ACQUIRES MOTION CONTROL/AUTOMATION COMPANY

Motion Industries, Inc. has completed the acquisition of Applied Machine and Motion Control, Inc. (AMMC), a Kentucky-based supplier of motion control and automation products and services. The transaction closed with an effective date of September 1, 2020.

Founded in 1995, AMMC is headquartered in Park Hills, Kentucky, outside of Cincinnati. The majority of AMMC’s business comprises the markets of Indiana, Kentucky, Michigan, Ohio, Western Pennsylvania, and West Virginia.



The company’s engineering and application expertise propels its specialty services including motion control, drives, HMI, PC and embedded control, automation control, mechanical, robotics, motors, and mechatronics. AMMC’s customer base consists primarily of OEMs, plus a number of end users. “We are very excited to join the Motion team,” said David Locke, AMMC president and founding partner/owner. “The cultural fit and our common goals make it an ideal match, and we look forward to contributing to the Company’s growth. Through Motion, we will have access to even more products and capabilities to enhance our value proposition and level of service to our customers.”

“As a premier supplier to the Ohio River Valley area and beyond, AMMC and its talented people will be instrumental in furthering our growth strategy geographically and in the automation arena,” said Motion Industries President, Randy Breaux. “In addition to broadening our offerings to customers, their go-to-market approach and line card are very similar to our other Mi Automation Solutions Group divisions, to which AMMC will be a nice complement. We are pleased to welcome them to the Motion family.”

Mi Automation Solutions Group offerings to customers include control panels, conveyors, machine vision, motion control, network connectivity, pneumatics, robotics, aluminum extrusion, sensing I/O, and other automation-related solutions. (Motionindustries.com)

EUROTRANS

ANNOUNCES NEW LEADERSHIP

The European power transmission engineering industry met for its annual meeting of the European Power Transmission Sector Committee EUROTRANS on September 29, 2020.

This year’s meeting focus was on the challenges of COVID-19. “COVID-19 functions as a catalyst for digitalization, it will speed up processes in our societies, in our global industry, and in the power transmission industry,” said Eric Goos, general manager of Hansen Industrial Transmissions N.V., Belgium plant of Sumitomo Drive Technologies. He is the outgoing president of EUROTRANS and established a modern organization which is well prepared for the challenges of the future. During the annual meeting, **Salim Haffar**, I-MAK Gearboxes and Drives, Turkey was elected as president and **André Thuswaldner**, Novagear AG, Switzerland was elected vice president.

“Digitalization and sustainability will be one of the key challenges for our industry – to be successful in the future



we need cooperation and networking opportunities beyond national borders and technologies,” said Haffar. During the discussions with managers from all over Europe, there was general agreement that the European power transmission industry with its cutting-edge technologies and global presence is a leading player in the global market, and a strong European network such as EUROTRANS is fundamental to strengthen this position. The European power transmission industry expects a minus of 20% in 2020 and a growth between 5 to 10% in 2021

Although the economic situation is a big challenge for the power transmission industry, some customer groups are quite positive, such as the semiconductor industry, pharmaceutical industry, railway industry and logistics industry.

“Our industry in Europe is innovative and on a long-term perspective it will grow further. EUROTRANS is an ideal forum to discuss future trends within an international management,” said Thuswaldner. (www.euro-trans.org)

Sentient Science and Croda

PARTNER FOR WIND ASSET LIFE EXTENSION

Croda International Plc, which uses smart science to create, make and sell specialty chemicals that improve lives, has recently announced a new partnership with Sentient Science (Sentient) for the recommended use of Croda’s Rewitec additives for wind turbine gearboxes and main bearings.

In 2019, Croda acquired Rewitec GmbH and began to offer Energy Technologies customers nano- and micro-particle-based additives to increase the durability of machinery by lowering friction and reducing wear. Sentient Science validated Rewitec’s DuraGear gearbox oil additives for use in wind turbine gearboxes in 2017.

This brand-new partnership will see Sentient apply physics and data science expertise, combined with Croda’s Rewitec additives, to calculate the lifetime extension of critical rotating components. It will also examine how Rewitec’s GR400 grease additive, developed specifically for main bearing durability improvements, can improve equipment lifetime.

Sentient Science provides DigitalClone for Wind Operations and Maintenance, which uses a unique combination of physics and data science to give a holistic view of the health and remaining useful life of an asset’s critical systems and components. This information is used for predictive maintenance programs to reduce operations and maintenance costs and ultimately to prolong asset life. Sentient is able to calculate and demonstrate durability improvements imparted through using Croda’s Rewitec technology, which provides asset owners the option of extending the lifetime of their assets instead of costly part replacements.

“The competitive energy market is forcing energy producers to optimize maintenance practices and reduce operational expenses,” said Scott Gardiner, Business Development Specialist, Energy Technologies at Croda. “Major correctives are the largest cost drivers in the wind energy market, specifically gearbox or main shaft replacement. The cost of this



replacement can completely change the asset’s profitability during its lifetime. The Rewitec technology is currently helping customers reduce failure rates and extend the life of these critical assets. We are excited that customers can now utilize Sentient’s DigitalClone to provide RUL projections in conjunction with our Rewitec technology.”

“As wind turbines age, operators are seeing a higher number of onshore and offshore wind assets running with damage, specifically in critical rotating components like gearboxes and main bearings,” said Ed Wagner, GM of wind operations at Sentient. “Our customers have been waiting for data to compare next generation additives, like Rewitec, against uptower part replacements. And while this may not be a solution for every wind turbine, we do have data to substantiate improvements in gearbox life and expect to show the same in main bearing life.”

(www.croda.com/en-gb)

Missouri S&T Alumnus

CONTRIBUTES 10 MILLION TO UNIVERSITY

Missouri University of Science and Technology alumnus Bipin Doshi and his wife, Linda, have made the largest individual contribution to an academic program in university history: a \$10 million gift to the department of chemical and biochemical engineering.

Their gift establishes an endowment, which will name the department and provide funding for an endowed chair to be held by the department chair and two professorships in support of exceptional, mid-career faculty members. The endowment will eventually support additional departmental needs including technology acquisitions and upgrades, fellowships, and seed funding for accelerating research to market.

“We are deeply grateful for Linda and Bipin Doshi’s investment in our university and the department where Bipin laid the foundation for his distinguished career,” says Missouri S&T Chancellor Mo Dehghani, who announced the gift during the university’s 150th anniversary online celebration. Learn more here: <https://www.powertransmission.com/news/10773/Missouri-ST-Alumnus-Contributes-10-Million-to-University/>