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## SEABC - Pinnacle Lecture 2021

### ENGINEERING AND HUMAN FACTORS IN FORENSIC ANALYSIS

<b>Date:</b>	Wednesday – March 10, 2021
<b>Time:</b>	5:30 pm onwards
<b>Presenter:</b>	Don Kennedy, P. Eng. Vice President, Transportation Structures, Associated Engineering.
<b>COST</b>	<b>FREE</b> to all ..... Non-Members may register as GUEST.
<b>JOIN VIRTUALLY</b>	Zoom Meeting; email ticket will contain details.
<b>Dinner + Refreshments</b>	Being a virtually event, all are encouraged to enjoy dinner-refreshment in safe comfort of your home. Registration is required: <a href="http://www.seabc.ca/Pinnacle2021">www.seabc.ca/Pinnacle2021</a>

SEABC's Pinnacle Lectures epitomize high caliber topics on themes that shape the future of our profession. The 2021 Pinnacle Lecture will provide an overview of these failures and issues, their engineering and human lessons, how we might apply these to our own engineering careers, whether working in design, management or risk management roles.

As structural and bridge engineers we strive to design safe, economic and sometimes innovative or elegant structures for a better built environment. Especially when designing more challenging structures, our expertise and skills should be informed by the sometimes harsh lessons of past structural failures. But are these lessons merely mechanical in nature, or are human factors just as important? Too few of these failures are properly documented or shared among engineers, but recently some failures have been widely reported on in the media and within the engineering community. One of these is the Florida International University (FIU) pedestrian bridge that tragically collapsed in March of 2018. This is among the most-documented bridge collapses in history and yet the engineering, human and process-related causes are still not as well understood as they could be. There are many lessons and recommendations documented in the NTSB report, but there is more in this collapse for engineers to understand. Other structural failures with inevitable lessons include: the Nipigon River Bridge tie-down failure in Northwestern Ontario in 2018, the Arecibo radio telescope antennae collapse in November of 2020, the I35W bridge collapse in Minnesota in August of 2007, the I5 Skagit River Bridge collapse in Washington in 2013, the Polcevera Viaduct collapse in Italy in 2018, and the Capriogliola concrete arch bridge collapse in Italy in April, 2020. Not all of these have run their course of study or litigation yet, and more lessons will emerge. How can we turn these lessons into new insights in our daily practices? Are we hard-wired to overlook foreseeable risk? As engineering practices, can we insure adequately against these risks? Are there gaps in our design codes or approaches? Join for more.

**Limited seating is available, so register at the earliest to avoid later disappointment.**



**Don Kennedy** has over 35 years of experience in bridge, structural and seismic engineering. His experience includes the design and construction of new bridges, bridge and structure rehabilitation and seismic retrofit, and forensic investigations into bridge failures. Don worked on the design and construction of many major BC bridges, has international experience in earthquake engineering and has authored many papers on seismic codes, design, retrofit and rehabilitation. In 2019, Don received the RA McLachlan Memorial Award from Engineers and Geoscientists BC.

**REGISTRATION DEADLINE March 4, 2021**