



Technical Education
AHEAD OF THE CURVE

ATEA REGION 5 CONFERENCE

BISMARCK STATE COLLEGE
OCTOBER 14-15, 2021

Agenda

Wednesday, October 13

6:00 pm - 8:00 pm Pre-conference social; Hampton Inn & Suites - 2020 Schafer Street

Light Appetizers & Cash Bar for participants and ATEA Board Members

Thursday, October 14

7:30 am - 8:30 am Registration Check-in (4th floor, National Energy Center of Excellence, 1200 Schafer St)
Coffee, Juice & Water will be served

8:15 am Welcome, Dr. Doug Jensen, President Bismarck State College

8:30 am - 9:45 am (Virtual) **Cybersecurity - A Talent Shortage that Affects Everyone**, Steve Mallard, TCAT Shelbyville



Opening Keynote:

Cybersecurity – A Talent Shortage that Affects Everyone

In today's world of cybersecurity, every business and industry are in the sites of malicious actors. Hackers aren't just breaking in to steal or encrypt data, they are out for you. Regardless if you are in the medical field, logistics, higher-ed, K-12, retail, industry or any business; they are coming for you. Learn how our digital lives are being compromised every day because of a talent shortage and see what you can do to protect yourself and your business. A live demonstration will be given on hacking phones, servers and how you are being tracked.

Keynote Speaker: Steve Mallard, Cyber Security Senior Instructor, TCAT Shelbyville

Mallard and the program have been recognized by Computerworld, TechTarget, the Whitehouse, US Department of Education Office of Career Education (OCTAE) -"Recognized for excellence, dedication, and leadership in Career Technical Education", SC Magazine as one of the top five Cyber Security Programs, the TN State Governor's Office and the TN Department of Homeland Security just to name a few. He has provided testimony at the National Academies of Science-Engineering and Medicine -"Strengthening the Disaster Resilience of Academic Research Communities", the TN Department of Education Advisory Committee for CTE and Information Technology, ES-ISAC "Partnership with Higher Education with the TN Dept. of Safety and Homeland Security", DCEMA – Cyber Awareness at Georgetown University and testified for Broadband TN - TACIR – TNECD.

Mallard and students have been utilized to scan and protect the Port of Memphis with the US Coast Guard, the TN Department of Homeland Security and private businesses and industry partners. The program also helped to produce products distributed by the TN Department of Safety and Homeland Security on 'gifted' USB drives and Malware and Cyber Threats from Drones before industry leaders reported these threats in the wild. Mallard's facility, TCAT Shelbyville, is also a co-host of the Middle TN Cyber Conference hosted annually in Murfreesboro, Tennessee bringing IT professionals and subject matter experts from across the globe. Faculty and students help train industry leading IT professionals during this event with the annual Capture the Flag. Mallard's program now provides businesses and industry data from a student ran live Security Operation Center at TCAT Shelbyville. The facility under his direction uses seven strategically placed sensors in southern Middle TN and helps to increase the security posture of these entities. The program has helped to solve cybercrimes that have totaled over \$4 million dollars with local law enforcement.

Thursday, October 14 (continued)

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| 10:00 am - 11:00 am | Breakout Sessions (set 1) | |
| <i>Online Education</i> | Dazzle Online - Dana Wolff and Stacey McManus Southeast Technical College, Sioux Falls, SD | <i>Bavendick Stateroom</i> |
| <i>Energy</i> | The Current and Future State of Carbon Capture and Storage Jason Laumb & Wes Peck, Energy & Environmental Research Center, UND | <i>Room 433</i> |
| <i>Health Sciences</i> | Using Toolboxes, Elephants and Puzzle Pieces to Promote Interprofessional Healthcare - Dr. Alex Clifford and Dr. Ann Curtis, Maine College of Health Care Professions | <i>Room 431</i> |
| 11:15 am - 12:15 pm | Industry & Trades Panel: What COVID Changed in Industry and How Education Needs to Adapt Sanford Health, Dakota Carrier Network, Farmer's Edge/Precision Ag, RDO | <i>Bavendick Stateroom</i> |
| 12:30 pm - 1:15 pm | Networking Lunch | <i>Bavendick Stateroom</i> |
| 1:15 pm - 2:30 pm | Breakout Sessions (set 2) | |
| <i>Leadership</i> | Communication and Leadership - Matthew Fraase TSgt US Air Force | <i>Room 433</i> |
| <i>Energy</i> | Energy and Manufacturing - Reynold Miller & Todd Seibel, National Energy Center of Excellence, Bismarck State College | <i>Bavendick Stateroom</i> |
| <i>Misc.</i> | ACE Apprenticeships - Alicia Uhde, Bismarck State College & Ace Representative | <i>Room 431</i> |
| 2:45 pm - 4:45 pm | Tours - Dakota Carrier Network or Bismarck State College Campus (sign up sheets will be at registration) | |

Friday, October 15

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| 7:30 am - 8:00 am | Morning Check-in <i>Coffee, Juice & Water will be served</i> | |
| 8:00 am - 9:00 am | Welcome, Panel Introductions <i>Panel Discussion: Engaging Students</i> Human Resources, Public Affairs, Academics - Bismarck State College | <i>Bavendick Stateroom</i> |
| 9:15 am - 10:15 am | Breakout Sessions (set 3) | |
| <i>Automation</i> | Pathways to Manufacturing - Dr. Brian Bontempo, Auburn Career Center & Ohio Tech Center | <i>Bavendick Stateroom</i> |
| <i>Misc.</i> | Reaching the Adult Learning - Lori Gibson, Bismarck Public Schools | <i>Room 433</i> |
| <i>Energy</i> | Curriculum Development Center - Online Interactive Tools and Virtual Reality to Enhance Student Learning - Lance Geving, Darin Unterseher and Steven Shannon, National Energy Center of Excellence, Bismarck State College | <i>Room 431</i> |
| 10:30 am - 11:00 am | BSC's Transition to a Polytechnic Institution - Dr. Douglas Jensen, President, Bismarck State College | <i>Bavendick Stateroom</i> |
| 11:00 am - 11:30 am | Wrap-up, Closing Notes Sandra Krebsbach, ATEA Executive Director | <i>Bavendick Stateroom</i> |

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