“Technical Education in a Rapidly Transforming World of Aerospace and Space Travel”

How two community colleges in southern New Mexico’s Doña Ana County and City of Alamogordo collaborate and innovate to grow and support workforce development and technical training needs of the NASA White Sands Testing Facility, Army White Sands Missile Range, Holloman Air Force Base and the commercial space industry led by Virgin Galactic at Spaceport America.

Wednesday Oct 28, 2020–
10:30-1:30 ET
9:30-12:30 CT
8:30-11:30 MT
7:30-1030 PT

8:30-8:40 MT
Welcome for the American Technical Education Association: Sandra Krebsbach, Ph.D. Executive Director and introduction of Conference Chairs,

8:35-Mary Kaye Bredeson, EX Director of COE, Advanced Manufacturing, and Aerospace, Everett, WA and ATEA VP for Strategy
Joe Butler, Dean of Science, Engineering, and Mathematics Programs, Doña Ana Community College, Las Cruces, New Mexico.

8:40-9:00 Southern New Mexico overview
Tracey Bryan, President/CEO of The Bridge of Southern New Mexico

Session 1
9:00-10:00 MT

NASA’s White Sands Test Facility
Mr. Joe Bullington, Jacobs Technology, Commercialization Manager for NASA’s White Sands Test Facility
9:00-10:00
Technical jobs at White Sands Test Facility, related training, teaming with engineers, needed skills both technical and soft skills with virtual tour

Break—10 minutes

10:10-11:10 MT

Army’s White Sands Missile Range and Doña Ana and Alamogordo Community Colleges support of WSMR and Holloman Air Force Base
Mariette Mealor, White Sands Missile Range
Technical Businesses in southern New Mexico and relationship to a technical workforce “What is changing and what is required?”
Moderator Joe Butler, Dean of Science, Engineering and Mathematics Division DACC
Panelists Division Advisory Committee
Joe Bullington, Commercialization Manager, White Sands Test Facility
Rod Mitchell, President, Las Cruces Machine Manufacturing and Engineering
Mariette Mealor, Leadership & Professional Development, White Sands Missile Range
Jason Lazich—Director of Infrastructure and Ground Services, Virgin Galactic
HAPSMobile, Inc., High Altitude Platform Station, Spaceport America tenant
Southwest Range Services, White Sands Missile Range
Thursday October 29, 2020

Day overview
Spaceport tour, program panelists Spaceport America leadership, Virgin Galactic and Doña Ana Community College and New Mexico State University’s response to move the region forward in the new and challenging direction of space.

8:30-9:00 MT Overview of the Day, Mary Kaye Bredeson, ATEA conference chair

9:00 to 11:00 MT

Spaceport America and Virgin Galactic presentations and virtual tours
9:00-10:00 Introduction, Overview and tours of Spaceport America
Dr. Bill Gutman, Director of Aerospace Operations
Alice Carruth, Public Relations Coordinator, hosts

10:00-11:00 Virgin Galactic Operations technology at Spaceport America and virtual tour and presentation, Jason Lazich, VG

11:00-11:30 Lunch Break

11:30-12:30

Space travel:
Virgin Galactic Discussion about operations and space travel at the Spaceport—what it takes and how they are getting ready for commercial space travel
Moderator Joe Bullington:
Guillermo Blacker, Director of Business Operations, Spaceport America
Beth Moses, Virgin Galactic commercial astronaut preparation and training or astronaut
Michael Moses President, Virgin Galactic

1:00 – 5:00 MT

Technical education supporting Southern New Mexico
Overview Joe Butler
Chair: Joe Butler, Dean of Science, Engineering, and Mathematics, Doña Ana Community College, Conference Committee

1:00-2:00

Doña Ana Community College and New Mexico State University’s unique partnership, how it came about and how it works
Overview panel: How it started, decisions made, adjustments and changes, advantages and challenges, and reorganization
Moderator: Joe Butler, Dean of Science, Engineering and Mathematics, DACC
Panelists:
Renay Scott, VP Student Success, (former campus president)
Monica Torres—DACC Campus President, (former DACC Vice President for Academic Affairs)
Saundra Castillo, Dean of Advanced Technologies, DACC
2:00-2:15 break

2:15-3:15

DACC how it works- Programs that support Aerospace, shared courses, collaboration, working with industry
Moderator: Joe Butler, Dean of Science, Engineering and Mathematics, DACC
Panelists
James Fredrickson, Assistant Professor of Aerospace Technologies, DACC
Saundra Castillo, Division Dean for Advanced Technologies, DACC
Chipper Moore, Department Chair Drafting and Design Technologies, DACC
Terri Mount, Department Chair for Commercial Technologies, DACC

3:15-3:30 break
3:30-4:30

New Mexico State University—how it works—Programs that support Aerospace, Transfer, Guided Pathways and BAS degree---with partnership updates
Moderator: Joe Butler, Dean of Science, Engineering, and Mathematics, DACC
Dr. Enrico Pontelli –Dean of Arts and Science, NMSU
Dr. Patty Wojahn, Department Chair of Interdisciplinary Studies, NMSU
Dr. Patricia Sullivan, Associate Dean of College of Engineering, NMSU
Brad Mazdra, Director of Academic Advising, DACC

4:30-5:00 Thank you and closure
Mary Kaye Bredeson
Sandra Krebsbach, ATEA Executive Director.