Presenters	Presentation Title	Presentation Description	Session
Melinda Dooley and Rebecca Jesse	Infusion 101-Experiment, taste and take away the latest trends in sugar, oil and vinegar infusion	Participants will be presented with lesson plans on how to create sugar, oil and vinegar infusions, while exploring marketing techniques, utilizing costing formulas and experimenting with food innovations. Infused sugars will be paired with ice cream, oils with greens, and vinegar with bread for tasting. Attendees will receive lesson plans and samples of the infusions to take back to their classrooms.	Breakout Session #1 Endeavor
Missy Fraze and Dr. Kern McGinley	Literacy is not a subject, it's a skill	Lectures got you down? Want to spice up your classroom? Literacy in CTE is not a curriculum, it's a strategy. We know you are not a reading teacher or a writing teacher, but building literacy skills is part of CTE. Industry needs effective listeners, strong communicators, critical thinkers and competent writers. Learn how Anchorage School District and King Tech High School implemented a CTE Literacy initiative using Professional Learning Communities. We will share our model, data collection, and goals for building literacy skills across CTE.	Breakout Session #1 Quadrant
Marshall Talbott	CTE in Rural AK Woodshop / Carpentry	In this session participants will learn about classroom management in a shop class; topics include creating a safe working enviornment, selecting appropraite projects, student expetations and managing classroom space; learn to create a culture of safety within the shop through teaching safety expectaitons including a knowledge of eye and hearing protection and knowing when students are capable of using various tools safely; discuss the process for ordering materials, supplies and tools from finding good vendors for tools and various supplies to deciding on the necessary tools versus nice to have tools and how to conserve materials; curriculum ideas will be shared including how to split time between book work and project time, teaching the critical skills that future employers are looking for including the employaiblity skills and technical skills; and finally project ideas and design plans will be shared for tables and similar furniture and building model houses using simple materials a including pine and plywoood.	Breakout Session #1 Resolution
Chris Taylor	Financial Literacy for Generation Z	Financial Literacy tends to come from observing those that are part of our lives prior to adulthood. Looking at research, this presents a dim view of our financial futures. Like it or not, the majority of our daily decision making revolves around finances. Understanding the elements that make up the financial side of our lives has the potential to make our life significantly more enjoyable. Maintaining our ignorance is a guaranteed path to the status quo. I am here to tell you that the status quo is not good.	Breakout Session #1 Adventure
Kelly Woolcott	Preparing Students for Careers in Health Care	Introduction; education and training; career evolution - how my degree allowed me to transition into several health care fields and why I became a teacher. Information on the classes I currently teach, the evolution of these classes and the value for students thinking about a career in health care. Preparing students for the next chapter: career exploration (ASVAB and other online tools); increasing the rigor of the classes and expectations from students; guiding high school class choices to meet the needs of secondary education; highlighting the value in entry level industry careers as students move forward with their education endeavors.	Breakout Session #1 Voyager

Presenters		Presentation Title	Presentation Description	Session
Diane Laskinsky		Project Lead The Way - Best Practices for all students across Alaska!	Project Lead The Way is making a difference in the lives of students and teachers in Alaska – and we're growing! Come and hear from your colleagues about why they believe PLTW curriculum is good for their students. And, learn how PLTW is addressing the needs of Alaska schools through project-based learning, dual credit, industry-recognized assessments, internships/apprenticeships, and special pricing for remote/rural schools.	Breakout Session #2
Dave Owens		Through the Eyes of Students	Join us as we listen to high school students share their experiences and creations. They will cover topics from welding to CAD/CAM to woodworking to community service projects. Their skills and passion for the trades will inspire you!	Breakout Session #2 Resolution
Anne Adasiak-Andrew		Tools for sustainable internships	Want to offer meaningful internship opportunities to your 11th and 12th graders, but lack the structure and tools to do it? Come learn about the key components to successful internship programs, and how ASD is connecting industry, teachers, and students using the online classroom "Canvas" to deliver individualized internships throughout the city for 9 high schools. With a consistent set of expectations and deliverables, teachers and administrators can ensure quality and integrity across a variety of internship experiences, allowing students to earn a high school semester credit. Attendees will leave the session with a program outline, sample syllabus, assignments, rubrics, and evaluation forms to facilitate duplication and implementation in your own district.	Breakout Session #2 Adventure
Dayna DeFeo, Trang Tran and Teri Cothren		Dual enrollment in Alaska: Exploring 10 years of enrollment and student outcome data	This presentation explores University of Alaska dual enrollment (DE) offerings from 2008 to 2017. It details the distribution of programs across geographic and demographic groups, examines student participation and academic outcomes over this 10-year period, and describes how current DE activities compare to the decade prior. DE enrollments have increased by 85% in the past 10 years, while headcount has increased by 49%, indicating that, on average, students are taking more DE courses while in high school. DE students complete 93% of their courses satisfactorily; 66% apply to a UA institution when they graduate high school and 41% attend. The presentation will explore participation and performance across demographic subgroups, identify opportunities for policy and practice, and discuss how UA will be moving forward with dual enrollment across the state.	Breakout Session #2 Endeavor

Presenters		Presentation Title	Presentation Description	Session
Peter Host, Mikel Insalaco, and Hannah Lies		Informing the Community – What we have learned.	For the past year and a half, Alaska Public Media has been working on Alaska@Work, a project highlighting and promoting the work being done by Alaskan organizations in the workforce development space. Partnerships have been formed, content has been produced, and many discussions have been had. Come see what we have been able to create with our partners, and benefit from what we have learned as we went from gathering information to having more than 30 videos completed and on the air. Peter Host, Development Manager, will provide a general overview of the Alaska @ Work project and its efforts thus far. Mikel Insalaco, Manager of Marketing & Promotions, will present on the performance of different content and avenues. Hannah Lies, Video Producer, will discuss the creative process, and how she has improved it over time.	Breakout Session #2 Quadrant
Dayna DeFeo, Jessica Passini, and Marie Lowe		Some College, No Degree: Exploring the Phenomenon in Alaska	Many Alaskans have completed some college, but leave postsecondary institutions before completing a degree. This presentation explores rural students' self-identified barriers to persistence: academic preparation, financial resources, and homesickness. Starting with interview data collected from rural youth, the presentation infuses the qualitative findings with quantitative data to explore patterns in rural students' attendance, persistence, and postsecondary outcomes. It invites attendees to consider the data and to identify opportunities for programming and policy to support student success.	Breakout Session #3
Colleen Fisk and Taylor Ferguson		Watt's Up with energy education in Alaska?	Energy is everything in Alaska, from how we power our homes, travel, and play, to our economy and environmental impact, so understanding where we get our energy and how to use it efficiently is important for all Alaskans. This is not usually taught in the classroom at the high school level, and CTE teachers have a unique opportunity to integrate energy concepts into their classrooms through building science, financial evaluations, software modeling, and more. Learn how energy is used in Alaska, how to include hands-on and technology-based STEM lessons in the classroom, where to find more (free!) standards-based curricula to teach about energy, and partnerships REAP has had with UAF and UAA to teach about energy efficiency and sustainable energy in rural and urban Alaska. This presentation will include discussion and part of a lesson using Kill a Watt meters so be prepared to participate!	Breakout Session #3 Quadrant
Dr. Kevin Fleming		Becoming their First Choice	For years you have forged partnerships, created pathways, and developed programs…yet we still have empty seats in our classes. Many career & technical educational programs remain the "alternative" or "safety" option. Why doesn't everyone just "get it" already? While we balance preparing students for both higher education and the workforce, it is time to shift our messaging. We need to (re)define the goal and (re)examine why the tipping point still has not yet occurred towards pathways, industry credentials, career readiness, and the pursuit of gainful employment. It's time to become their first choice.	Breakout Session #3 Endeavor

Presenters		Presentation Title	Presentation Description	Session
Domenic Giunta, Kraig Berg, Christoper Hattan, Dianne Mclaughlin, Patrick Adolphae		Reinventing Shop Class for the 21st Century.	Technology is affecting the demand for future skills in the workforce. This presentation will introduce participants to activities and projects that both engage students in the classroom while building career experience in new technologies such as 3D Printing, programming, Computer Aid Design, and other high demand Advanced manufacturing skills.

In this presentation, we explore advanced manufacturing equipment in the CTE classroom and ways to impact student learning through hands-on lessons and project-based learning. The audience will participate in an easy to run project-based learning challenges and receive the lesson plans to take back to their classroom. | Breakout Session #3 Voyager |
| Joni Simpson and Kevin Fochs | | CTSO's in Alaska~How It's Done in the Largest, Extremely Diverse State in the US | CTSO's are an extremely important extension of any CTE pathway. The benefits to students are almost beyond measure. Alaska presents some unique challenges to developing and sustaining programs that we need to overcome and we need to work together. This session is for you if you are brand new to the CTE/CTSO world or have been doing it for awhile. Bring your questions and ideas to share. Come prepared ready to walk away with resources, a viable plan, and a network of colleagues. | Breakout Session #3 Resolution |
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| Daniel Bird | | Digital Skills for Careers and Higher Education – Are your students prepared? | Employers want to know what a job candidate understands and can do when it comes to digital skills. Students must be job ready upon entering the job market with strong Office, computer programming and digital skills. 78% of middle-skill jobs require the employee to possess digital skills. The percent for high-skill occupations jumps to 84%.

Isograd's TOSA certifications and assessments are internationally accredited, performance-based career and college readiness programs. They cover desktop applications, digital skills and programming languages.

This session reviews a comprehensive plan to assist teachers in the complete lifecycle from assessment to certification, thus providing an outcome that is aligned to industry needs. | Breakout Session #4 Voyager |
| Gloria Burnett and Mari Selle | | Health Careers Curriculum | The Alaska AHEC provides instructional support to schools throughout the state with a special focus on rural and underserved populations. Over the years, the AHEC has created a wealth of health and behavioral health careers curriculum. This curriculum is now formalized into manuals with instructional resources and available for sale. The Alaska AHEC also offers instruction via our regional AHEC center staff throughout the state. Come learn more about the array of resources and opportunities for collaboration to better provide health career programming to your students! | Breakout Session #4 Quadrant |

Presenters		Presentation Title	Presentation Description	Session
Sheila Box Deb Riddle, Bjorn Wolter, Felicia Swanson		Equity in CTE: Beyond Students With Disabilities	Have you thought specifically about what extra supports special populations may need in your CTE classroom? You probably have accommodations ready for students with disabilities, but what about single parents, homeless students, girls in a welding class or boys studying accounting? Homeless, Foster, and students from military families are all new additions to the list of special populations students under Perkins V that may require extra attention. Join me for an informational and interactive presentation on equitable access!	Breakout Session #4 Endeavor
Beki Toussaint		A Journey through Alaska's Mineral and Energy Resources	Exploration of Alaska's Mineral and Energy Resources through ARCGIS online's interactive story maps. Explore the history, geography, process, economics, health safety & environmental, and careers.	Breakout Session #4 Resolution
Woody Woodgate and Steve Johnson		"4 Teachers Model" for NCCER and eCommerce PD Courses	Last summer, teachers from around Alaska attended one-week PD courses at Prince William Sound College in Valdez. These courses were designed to provide professional development for career and technical education teachers using the "for Teachers" instructional model. This model is based on a combination of content instruction, the inclusion of place-based teaching methods, lesson plan development, cross-disciplinary teaching, and meeting the State of Alaska content standards and the Alaska Standards for Culturally Responsive Schools. Class time in the "for Teachers" courses is divided between classroom instruction and practical, hands-on outdoor learning.

This presentation will highlight the NCCER Core for Teachers course which qualified teachers to certify their students in the NCCER Core course as well as other NCCER craft skills courses. The E-Commerce for Teachers course prepared teachers to facilitate dual enrollment, eCommerce courses for the "Alaska Tech Learners" project. | Breakout Session #4 Adventure |
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| Teri Cothren and Missy Fraze | | Help build it! | Have you wanted access to a clearing house of CTE curriculum and resources to assist you in the classroom or in planning CTE programs for your district? Would you like to collaborate with CTE teachers and experts in your subject area? Are you a CTE administrator wanting to collaborate with other administrators throughout the year to leverage resources, enhance student outcomes, and discuss best practices and policies? The goal of this working session is to identify next steps for the AK Association for Career and Technical Education, with the assistance of membership, to make this longtime dream a reality. Participants will divide into working groups to develop an action plan and timeline for implementing a clearinghouse and collaboration network for the AK ACTE membership. | Breakout Session #5 |

Presenters		Presentation Title	Presentation Description	Session
Andrea Gelvin		HOSA Integrated into the Classroom	How to start a health science program of study and enrich the student experience with HOSA-Future Health Professionals (CTSO) projects and activities. Will show how HOSA is a career planning and professional skills building component of a robust health science program of study. HOSA is aligned with the National Consortium for Health Science Education Industry Standards.	Breakout Session #5 Resolution
Shelly Morgan		College & Career Planning in Elementary Classrooms	Discover easy ways to set the foundation for success, with free programs and resources that help students build Personal Learning and Career Plans through fun classroom activities. Early Career Explorers classroom resources, I Know I Can and Kids2College early college & career exploration programs, and AKCIS Jr. self awareness and career exploration activities are designed for students from Pre-K through 6th grade, with flexibility up through Middle School.	Breakout Session #5 Quadrant
Julia Renfro		PLCP Tools for All	New or Seasoned this workshop provide "use it now" resources to help students create and grow their excitement for postsecondary education and training. For all CTE and Core curriculum classes.	Breakout Session #5 Endeavor
Andy Rogers		Entrepreneurship Camps - Career and technical skills learning outside the school year	Teaching institutions continually invest in producing educated Alaskans for our communities and work force needs. Alaska Business Week (ABW) augments that investment. ABW offer skills-based learning from (and funded by!) private sector employers, teaching Alaska high school students the skills they need to transition successfully from their educational path into the workplace. This presentation introduces conference attendees to the ABW program structure and simulation curriculum. The program provides career, technical, and entrepreneurial-minded students with an opportunity to learn applicable management skills while establishing a professional network with mentors from the local business community. After attending this breakout presentation, educators will understand the ABW program and how to direct appropriate students to the program. Breakout participants will have a new resource that enables ambitious students to learn valuable business skills during their summer break.	Breakout Session #5 Adventure
Rex Hamner		Greenhouse Growing in Alaska	Attendees will be exposed to grow bed design and construction, use of artificial lighting, heating requirements, and seeding and harvesting schedules. A lot of the presentation will be similar to a panel discussion setup with Q&A.	Breakout Session #6

Presenters		Presentation Title	Presentation Description	Session
Elizabeth Hardie and Martha Peck		Alaska EXCEL Partnership with MAPTS Mine Training Program leads to positive future for Y-K area students	MAPTS/EXCEL presentation will highlight their partnership of the past three years, which culminates every spring in a 2-week training camp for up to 12 Alaska EXCEL students. The students, with EXCEL chaperones, live and train at the MAPTS camp 10 hours per day, 7 days per week. From camp, the students go on to work summer internships with Calista Corporation subsidiaries. Those internships then lead to full-time jobs for some students. The training partnership includes mentoring, instructing, and coaching students, bridging the gap between high school and a career or higher education.	Breakout Session #6 Adventure
Matt Johnson		Industry Certifications Through Your Classroom	Learn how your students can earn the industry recognized certification in your own classroom. Certiport offers the certifications for Microsoft, Adobe, Unity, Autodesk, App Development with Swift, Quickbooks, EC-Council (cyber security), Entrepreneurship and Small Business, IC3 Digital Literacy, and Coding in Minecraft. We will talk about how to set up the program in your school, best practices, and some of the new programs available.	Breakout Session #6 Voyager
Jeanette Renaudineau		Embrace the Chaos - Project-Based Learning	Do you know all the answers to the questions you ask your students? Should you know all the answers? Do you attain to run your classroom like a well-oiled machine, but are struggling to manage disengaged students while trying to figure out how to keep your brightest students challenged? Maybe it's time to loosen the reins and embrace the chaos! Ask open-ended questions, pose messy "real-world" problems to your students and encourage them to tinker, fail, and keep tinkering. Project-Based Learning encourages active exploration of real-life challenges and problems. Come prepared to move, discuss, and make something! *This is a 90 minute workshop	Breakout Session #6 Resolution
Trang Tran		Alaska High School Graduation Rate Trends	This presentation examines trends in Alaska public high school graduation rates from academic year 2010-11 to 2015-16 and explores differences across demographic groups. We focus on students from public neighborhood high schools. These are publicly-funded schools run by district or Regional Educational Attendance Area school boards serving all residents within school attendance boundaries, representing about 88% of Alaska's high school students. Between 2010 and 2016, the Alaska public neighborhood high school graduation rate paralleled the national upward trend, increasing from 71% to 79%. Graduation rates increased for all demographic groups, with growth most pronounced for Native students, students in low-income families, and those living in rural areas. Performance gaps between race and income subgroups, though still apparent, narrowed considerably.	Breakout Session #6 Endeavor
Andrea Gelvin		Technical Skill Assessments for Health Science	TSAs are a critical component of CTE programs. Attendees will work through several Health Science Technical Skill Assessments. Strategies to integrate the training into a classroom curriculum will be a take away.	Workshop #1 Quadrant

Presenters		Presentation Title	Presentation Description	Session
Roland "Bud" Johnson		The Missing Link: Career Exploration in MIddle School	Student engagement wanes as early as middle school, and CTE programs that start in high school can struggle with enrollment. Learn how to implement College & Career Ready Labs to help your district bridge the interest gap and introduce students to all industry sectors / feed high school pathways.	Workshop #1 Voyager (VENDOR)
Dave Owens		Shop Teacher Round Table and Discussion	Join a room full of shop teachers as we share challenges, ideas, and lesson plans with one another. Please come prepared to be a full participant in the conversation. When finished, we will be going back to our classroom with useful tutorials and lesson plans that can be implemented immediately!	Workshop #1 Resolution
Julia Renfro		Creating a PLCP Implementation Plan	You help students connect short-term school goals to their long-term vision for the future. Helping students become aware of their personal strengths, talents, interests, and academic habits can not only lead them to rewarding opportunities in their career choices, but also help them meet the evolving needs of the workforce. One of your biggest challenges as an educator is finding time to fit career development activities into your class or school schedule. This workshop can help you overcome this challenge by providing step-by-step guidance to creating an implementation plan.	Workshop #1 Endeavor
Deb Riddle Bjorn Wolter, Sheila Box, Felicia Swanson		Multidimensional professional development and the New Standards	Quality teaching demands effective principal/administrator leadership. This session will explore how to support administrators to integrate equitable practice while promoting the success of every student through visionary leadership. Examine ways to promote networking across the state. In addition, learn about the new Science, Computer Science, and Digital Literacy Standards and how to support educators through the implementation process.	Workshop #1 Adventure
Cheryl Bobo		Computer Science - Essential Skills for Alaska's Workforce	Code.org believes that every student around the world should have the opportunity to learn computer science. It helps nurture problem-solving skills, logic, and creativity. By starting early, students will have a foundation for success in any 21st-century career path. We will explore Alaska's workforce needs and look at a curriculum that is aligned with Alaska's new Computer Science Standards. Bring your laptop and experience for yourself that code.org courses offer equitable opportunities to be creative, to write code and engage in computer science.	Workshop #2 Endeavor
Steve Johnson		The Shared Teaching Model and Alaska Tech Learners	Alaska Tech Learners is an NSF-funded dual enrollment project that teaches eight different courses in web engineering and mobile applications development. The purpose of this project is to improve the computing skills of teachers and students. The project offers instruction using summer camps and school year courses. The school year courses use a "shared teaching model". Teachers provide instruction and support to students and award high school grades. University faculty work with teachers and award university credit. The curriculum and materials are provided by the project. This program may be taken as a true dual enrollment program, or high school students and teachers may take the courses asynchronously. Teachers and students from any school district, home school, or charter school in the State of Alaska may take part in the project.	Workshop #2 Quadrant

Presenters		Presentation Title	Presentation Description	Session
Joni Simpson and Kevin Fochs		CTSO's in Alaska~How It's Done in the Largest, Extremely Diverse State in the US	CTSO's are an extremely important extension of any CTE pathway. The benefits to students are almost beyond measure. Alaska presents some unique challenges to developing and sustaining programs that we need to overcome and we need to work together. This session is for you if you are brand new to the CTE/CTSO world or have been doing it for awhile. Bring your questions and ideas to share. Come prepared ready to walk away with resources, a viable plan, and a network of colleagues.	Workshop #2 Resolution
Felicia Swanson		WBL Challenges & Best Practices	Work Based Learning (WBL) experiences, including Internship and Apprenticeship, can be an important part of a student's high school experience and journey towards a career. Districts with current WBL programs will share a breif overview of their practices and materials, along with the following: 1) Barriers for getting studetns into WBL? 2) Discussion towards a state level practice and policy 3) WBL Toolkit colelction/creation	Workshop #2 Adventure