Poster Sessions and Reception

Monday, 4:15 pm – 5:45 pm, Room 311, Hawai‘i Convention Center

Access the World: Tools for Inclusion

1. **Easily Access an iPad, iPhone, or iPod Touch Running iOS**, Mary Sagstetter
   With one or two switches connected via Bluetooth, users with significant physical disabilities can easily access an iDevice to gain access to an AAC app, write an email, or make a phone call. Every app, every screen item, is now accessible.

2. **The Disability Closet: Conditions that Ease the “Coming Out” Process from the Perspectives of Persons with Learning Disabilities Pursuing Nursing Careers**, Laura Mood & Dena Hassouneh
   This poster presentation reports research findings specific to disclosure patterns among persons with LD pursuing nursing careers. Conditions supportive of disclosure are discussed as well as broad recommendations to promote the inclusion of persons with disabilities within the nursing profession.

3. **iPads for Empowerment**, Sabrina Alvarez
   In a technological society, it is necessary to incorporate technology in therapy for people with disabilities. By implementing an iPad program utilizing applications that improve communication, social, and life skills, participants were able to strengthen these abilities and improve their quality of life.

4. **Convivial Media: Information and Assistive Technology for Persons with Disabilities**, Kuniomi Shibata
   We notice that using Information and assistive technologies by people with disabilities abound in originality and ingenuity. These imaginative applications can be explained by “conviviality” (Illich, 1973). This presentation discusses IT and AT for people with disabilities in view of Convivial Media.

5. **On-demand Human Service and iPad as the Motive**, Kenichi Shimura
   The purpose of the study was to verify the utilization of iPad, for supported decision making of people with intellectual disabilities. The theory of "on-demand human service" emerged through the constant comparative analysis. The research suggested that the use of iPad becomes motive for the on-demand human service provider.
**Advocacy: Claiming Our Voices**

   This poster presentation redefines beauty through the eyes of Ms. Wheelchair America and a New York model. Strategies are offered on utilizing pageants to advocate for disability rights. Personal stories and concrete strategies are offered. Methods to build mentorship and strengthen positive disability images across cultures are also highlighted.

7. **Advocating in Higher Education: The Warhawk Disability Alliance at Auburn University**, Montgomery, Tamara Massey-Garrett
   The Warhawk Disability Alliance (WDA) is an advocacy association for students that was established through the Alabama Alliance for Students with Disabilities STEM (AASD-STEM) at Auburn University, Montgomery. The purpose of this poster session is to describe the development of and activities of WDA.

8. **Using Thoughtful Simulations to Promote Disability Awareness, Inclusion, College Cohesion, and Student Retention**, Jose Rosario, James Cook, Maritza Mayo, Mary Jusayan, William Potter, Megan Fisk & Benjamin Dugas
   The Advocacy and Beyond Club (ABC) at Rhode Island College is a student organization for students with and without disabilities who advocate for disability awareness. ABC hosts several educational events and programs to create empowerment and positive social change. Through disability simulation events and workshops, ABC educates the college population about various forms of disability and engages in open dialogue. Providing an open forum where faculty, staff, and students can ask disability-related questions without judgment is crucial to college cohesion. This has led to tangible, positive change on campus including reducing student apathy, increasing inclusion and acceptance, and improving student retention.

**Aging, Disability, and Quality of Life**

   There are approximately 15.5 million caregivers helping their loved ones with Alzheimer’s. Nearly 60 percent of caregivers rate the emotional stress of care giving as high or extremely high. This presentation is designed to help caregivers manage the stress by providing ten tips for Alzheimer’s care and self-care.

   ALS is a common degenerative disease. Our rehabilitation team tested two methods for simultaneous PC-operation for ALS patients. Results showed that the patients were able to operate a PC accordingly with their disease progressive phases. The program successfully maintained the QOL of the patients until their deaths.
Japan is one of the most rapidly aging countries in the world. The mortality rate of cancer has been increasing. The purpose of this study was to investigate the current situation of physical therapy for terminally ill cancer patients.

Caring Inclusive Communities

Sora is a workers’ co-op, founded and operated by workers with and without disabilities to promote work without conventional employment relations. Building on multi-disciplinary analyses of its activities, we will discuss implications of associated work for the growth of stakeholders and community.

Childhood Development

13. Psychosexual Stages of Development among Persons with Disabilities, Raghav Suri
This poster presentation will address the Sigmund Freud model of psychosexual development from a disability perspective, based on the latest research and literature publications. The presentation will also discuss Lock's (2011) phases of psychosexual development in adolescents with chronic medical illness.

14. The Relationships between IQ Discrepancy and Levels of Motor Competence in Preschool Children at Risk for Developmental Delays, Tzu-Ying Yu
This study aimed to establish whether (1) a group difference exists in the motor competence of preschool children at risk for developmental delays with intelligence discrepancy (IQD), and (2) an association exists between IQD and motor competence.

15. Diagnostic and Concurrent Validity of General Movements (GMs) Assessment in Taiwanese Late Preterm Infants, Ya-Lun Lo & Ai-Wen Hwang
Because health complications in late preterm is higher than terms, early detection of neurodevelopment becomes very important. We examined the diagnostic and concurrent validity of General Movements assessment and traditional neurological examination. We hope we can use this in clinical assessments, and apply early interventions at an early age.

16. A Developmental Screening Tool of Hand Function for Preschool Children Based on Rasch Analysis, Tzu-Ying Yu & Kuan-Lin Chen
The study aimed (1) to develop a screening tool of hand function for parents and therapists to use with children ages 3 to 6 and (2) to examine its dimensional structure and the agreement between parents’ and therapists’ ratings of children’s hand function.
17. The Relationship between Theory of Mind and Social Interaction in Children on the Autism Spectrum, Ai-Ling Lyu, Ya-Chen Lee, Yi-Lun Lu, Chih-Wei Li & Meng-Ting Li
This study examined the relationship between theory of mind and social interaction in children on the autism spectrum. The results showed that theory of mind performance was moderately associated with the social interaction performance in children on the autism spectrum.

18. The Effect of Language and Symptom Severity on the Performance of the Theory of Mind in Children on the Autism Spectrum, Meng-Ting Li, Chih-Wei Li, Yi-Lun Lu & Ai-Ling Lyu
This study aimed to examine the relationship of verbal ability and symptom severity with the performance of theory of mind in children on the autism spectrum. The results showed that the symptom severity and verbal ability of children on the autism spectrum were together related to their theory of mind performance.

This study aimed to develop a computerized adaptive testing of gross motor function (GM-CAT) as a diagnostic test and an outcome measure. The developed GM-CAT was valid, reliable, and responsive for assessing gross motor function in children from 18 to 71 months.

20. Adult Bicultural Deaf/Hearing Identity Predicts Adult and Childhood Health-Related Outcomes, Vincent Samar
Three students demonstrate that deaf adults with bicultural deaf/hearing identity report high self esteem, broad functional and interactive health literacy, and a low likelihood of childhood neglect. Parents, teachers, and health professionals should understand that bicultural identity may contribute to positive physical and mental health outcomes for deaf children and adults.

In Taiwan, the Functioning Scale of the Disability Evaluation System-Child version was an ICF-CY-based protocol and developed for children and youth aged 6.0-17.9 years in conjunction with the launch of the People with Disabilities Rights Protection Act in 2007.

**Education: Pipelines to Success**

22. The Use of iPads as Assistive Technology for Students with Disabilities, Min Wook Ok
iPads have been widely used in special education settings. The potential benefits of the use of iPads as AT for supporting students with disabilities has been demonstrated among professionals. This presentation will inform the beneficial features of iPads as AT and introduces examples of AT apps as well as online resources for apps.

23. From Research to Practice: Use of iPads and iPods for Academic Performance and Engagement of PreK-12 Students with Disabilities, Min Wook Ok
This poster session will provide information on the effects of using iPads or iPods on academic performance and engagement of PreK-12 students with disabilities as well as how the devices could be incorporated into instruction.

In higher education, there is an increasing awareness of the importance of reasonable accommodation for students with disabilities. We have developed a new note-taking system by utilizing a digital pen aimed at providing better support in terms of reasonable accommodation.

25. Informal Notions of Fractions Held by Students with Learning Disabilities, Jessica Hunt
We present initial conceptions of fractions evidenced through activity, language, representations, and operations of 44 students with LD and mathematics difficulties as they engaged with equal sharing problems. We include implications in relation to intervention and assessment design.

26. An Exploration of Teacher Candidates’ Knowledge of and Attitudes toward Gender Non-conforming Children and Youth, Tracy Thorndike & Kathleen Lambert Thorndike
Gender non-conforming youth experience high levels of school-based harassment and are at elevated risk for negative outcomes such as disabling levels of anxiety and depression. Teacher candidate knowledge of and attitudes toward this population explored and strategies to improve outcomes discussed.

27. Exploring the Potential of LEGO Interventions for Improving STEM: Learning, Inclusion, and Social Skills for Youth with Disabilities, Sally Lindsay
We conducted a systematic review of the role of LEGO® interventions on improving inclusion of youth with disabilities. Most studies reported an improvement in social skills, inclusion and interest in STEM. LEGO® interventions have the potential to improve social and communication skills and knowledge of science for youth with disabilities.

28. A Basic Study on Development of Dyslexia Diagnostic Tools in Korea, Yong-Wook Kim, Jeong-Han Woo & Hwa-Sung Shin
In the current Korean situation, many students with dyslexia, the serious difficulty in reading, are regarded as school underachievers, and are not being provided the appropriate educational services. This problem is caused by lack of research on dyslexia in Korea character Hangul, a shallow orthography, and by having no diagnostic tools for diagnosing dyslexia. Results of related studies revealed that the inspection area required for diagnosing dyslexia Hangul, which is a Korean character, included 11 areas. To evaluate the skills for each area, sub-questions were designed from this study.

Project Ho’okui is a research project that seeks to increase enrollment of Native Hawaiian students in postsecondary education or in postsecondary education certification programs
leading to employment.

The Princeton School (TPS) is the premier online learning source for students who are deaf and hard of hearing worldwide. We provide affordable instructions 24/7 with certified teachers in-school, after-school and on weekends to K-12 students/school districts and adults including an international preparatory program and ASL classes for hearing students.

The STEMD2 research group will present an instructional intervention that integrated connectivism (social learning) and problem-based learning for an inclusion-based instructional. The preliminary results of the intervention tested in 8th Grade mathematics setting as well as the implications for further research and development will be discussed.

32. *Socio-Culturally Responsive STEM Curriculum Development*, Robert Young, Kaveh Abhari, Justin Toyofuku, Holm Smidt & Tsun Lun Chu
STEDM2 Lab fits 'Common Core Standards for Mathematical Practice and Content' to Hawaii's unique culture, social values, and demographics. Funded by the US Department of Education, this project aims to develop socially and culturally responsive, problem based lessons for in-depth mathematical learning and thinking.

**Employment and Disability**

China's government and society have been making an effort to advance employment for the disabled, but still many disabled persons cannot find a job. The outlets are perfecting the policies and implements, delivering sufficient training promoting formal education, and improving unfriendly workplaces.

34. *Toward an Accessible and Inclusive Public Workforce System*, Kay Magill & Linda Toms Barker
We present findings from a study of the public workforce system’s accessibility to people with disabilities. After Item Response Theory (IRT) analysis, we applied a standard-setting methodology to define accessibility levels to which scores were assigned. We will discuss how to use these findings to improve PWDs’ employment outcomes.

35. *Life Factors Influencing the Employment Status of Disabled End Stage Renal Disease (ESRD) Cases in Taiwan*, Fu-Chih Lai
The employment rate of the disabled ESRD is relatively low compared with the employment rates of other disabled people in Taiwan. In line with the high prevalence rate of ESRD, this disease and its corresponding renal replacement treatment have influenced not only their employment status but have also caused difficulties in social function and activity and interaction to living and working environments. Thus, the role of occupational rehabilitation is vital and factors that influence the employment status should be explored for therapists so as to provide better care.

36. **Add Us In: The Chamber Based Practices to Increase Disability Employment**, Day Al-Mohamed
This poster presentation goes into depth to examine the concept of and the results from engaging businesses through their local chamber of commerce as a means to facilitate a cultural shift and encourage greater disability employment in small businesses, particularly those operating in minority communities.

The Chinese government has been taking measures to improve the employment for the persons with disabilities (PWD), which are policies of three forms of support for the employment, training and education, and financial support. The role of the government is not perfect and needs adjustments.

**From the Margins to the Center**

38. **Promoting the Arts for Students with Disabilities**, Melinda Pierson & Erica Howell
The main objective of this poster presentation is to showcase a musical theater and dance program called No Limits. This program allows students with disabilities to be included in an arts program where peer mentors and teachers have been trained in positive behavior support strategies, friendship skills, and overall inclusionary practices.

39. **Lifting Our Game: A Rubric to Enable the Identification and Evaluation of Poor, Good and Best Practices in Disability and Violence Services**, Deborah Hager
There is very little documentation of the values and attitudes required for best practices at the intersection of disability and violence. This poster introduces a rubric that identifies poor, good and best practices for disability and violence services and argues for certain requirements to respond constructively to violence against dis/ableld women.

**Health Matters**

40. **Prevalence of Dental Caries and Streptococcus Mutans Levels in Children with Down Syndrome at Boston Children’s Hospital**, Harleen Kumar
Children with Down syndrome at Boston Children’s Hospital have lower caries prevalence compared with the general population of children. When maternal and child streptococcus mutans levels were assessed, there was no correlation between counts for mothers and their child with Down syndrome.

41. **Pre-operative Physical Function and its Correlation with BNP and Hb in Patients who Underwent Cardiac Surgery**, Shimpei Hirota
This study found significant correlations between the pre-operative physical function of patients with cardiac surgery and their blood testing data, BNP and Hb. Due to a heart failure or anemia, their physical activity levels might have decreased before the surgery. Results suggested that the patients with such conditions would have poor physical functional improvement just before discharge.

42. **Attention Deficit Scales for Adults: Sign Language Version Shows Criterion and Predictive Validity and Is Not Confounded by Deaf Cultural Identity**, Ila Parasnis & Vincent Samar
Deaf and hearing adults took the Attention Deficit Scales for Adults - Sign Language Version (ADSA-SLV), BRIEF-A, and Beck Depression and Anxiety Inventories. Criterion and predictive validity were high. In another study, deaf adults took the Deaf Acculturation Scales, ADSA-SLV, and BRIEF-A. Deaf or hearing identity did not confound ADSA-SLV scores.

43. **Secondary Conditions in People with Disabilities**, Kwang-Hwa Chang
People with disabilities sometimes have difficult health challenges. Health promotion and prevention of secondary conditions may be important for them to maintain their health. Using the Taiwan National Health Insurance Research Database, we search for those illnesses often found in people with disabilities.

44. **HI-PRAISE – Preliminary Findings of an Incentive Program to Improve Chronic Diseases among Medicaid Recipients**, Rebecca Rude Ozaki, Ritabelle Fernandes, Misha Morioka, Chuan Chinn, Dongmei Li, Timothy Frankland & Timothy Halliday
This poster presentation will highlight various research findings of Hawai‘i Patient Reward and Incentive to Support Empowerment Project. This 5-year demonstration grant studied the use of incentives to improve chronic disease management for adult Medicaid recipients with diabetes.

**Intersectionalities and Diversity**

45. **Researching Inclusion and Intersectionality in a Preservice Teacher Education Program**, Leechin Heng
Intersectional analysis will be used to critically explore challenges of implementing a preservice teacher education program in Aotearoa New Zealand.

46. **The Importance of Cultural and Linguistic Competence Delivering Services among Diverse Populations with Disabilities**, JC Vazquez
This poster presentation addresses the importance of becoming familiar with cultural practices among ethnic minorities that will allow service providers to develop, report and provide services in a culturally sensitive and relevant manner. The poster provides general guidelines of a successful training format that incorporates best practices and general understanding to better serve diverse communities with disabilities.

Public and Environmental Health

47. CSOAE as a Predictor of Individual Susceptibility for Auditory Threshold Shift, Saumya Sundaram
Thirty individuals (18-25 years) having bilateral hearing sensitivity were evaluated using pure-tone audiometry, Transient Evoked OAEs, Distortion product OAEs and contralateral suppression of DPOAEs before and after noise exposure to 85dBHL for 20 minute. CSOAE can be used to identify tough/tender ears.

Putting Research into Practice

48. Acceptability of the Response to Intervention Model between General and Special Education Teachers: Identification of Students with Specific Learning Disabilities, Adrian Jung
The purpose of this quantitative study was to determine the level of acceptability among general education and special education teachers for the RTI model in the identification of a student with a specific learning disability. The study consisted of 279 participants: there were 152 general education teachers, and 127 special education teachers.

49. Assessing the Immediate and Long-Term Effectiveness of an Intensive Training Program for U.S. Virgin Island Educators, Yegin Habtes & Kimberly Mills
A key aspect of service delivery among the UCEDD’s is the provision of technical assistance. VIUCEDD staff engaged in a mixed methods analysis of two dimensions of technical assistance: retention of content knowledge and perceptions of the TA as a tool for long term systematic change. Outcome data related to the intervention is presented.

50. Using Curriculum-Based Evaluation to Assess Special Education Teacher Candidates, Keith Hyatt, Gail Coulter & Chuck Lambert
The use of Curriculum-Based Evaluation (CBE) has strong support in professional literature for K-12 populations, but little application of the technology in higher education. This poster describes the process and results of the use of CBE for higher education. Application of this technology for accreditation is also discussed.
51. Selecting Score Types for Longitudinal Evaluations: The Responsiveness of the Comprehensive Developmental Inventory for Infants and Toddlers (CDIIT) in Children with Developmental Disabilities, Kuan-Lin Chen, Ya-Chen Lee & Tzu-Ying Yu
The study examined the responsiveness of the Comprehensive Developmental Inventory for Infants and Toddlers (CDIIT) in children with developmental disabilities (DD). The findings support the use of the CDIIT as an outcome measure to evaluate developmental changes and program effectiveness.

52. The Relationships between Pretend Play and Playfulness in Children on the Autism Spectrum, Ya-Chen Lee, Kuan-Lin Chen & Tzu-Ying Yu
This study explored the relationships between pretend play and playfulness in children on the autism spectrum, children with developmental delay, and typically developing children. Play patterns indicated reliance on others for play ideas in children with autism.

53. The Association between the Capacity and Performance of Theory of Mind (ToM) in Children on the Autism Spectrum, Chih-Wei Li, Meng-Ting Li, Yi-Lun Lu & Ai-Ling Lyu
This study aimed to clarify the association between theory of mind (ToM) capacity and performance in children on the autism spectrum. Results showed that ToM capacity was only moderately correlated with ToM performance with autism.

54. Discriminative Validity of the Chinese Version of the Theory of Mind Inventory in Children with Autism, Yi-Lun Lu, Ya-Chen Lee, Meng-Ting Li, Chih-Wei Li & Ai-Ling Lyu
The study aimed to examine the discriminative validity of the Theory of Mind Inventory-Chinese Version (TOMI-C) in children with autism spectrum disorder. The TOMI-C was found to have good discriminative validity and thus is able to distinguish children with and without difficulty in theory of mind.

55. Recruitment and Retention of Women with Physical Disabilities in Health Research, Dena Hassouneh & Laura Mood
The purpose of this poster presentation is to examine evidence on recruitment and retention of women with physical disabilities in research and present four principles to guide investigators seeking to recruit and retain this population.

Special Focus: Death and Dying

56. Understanding of Palliative Care Concepts among Speech-language Pathology Students, Nidhi Mahendra & Marian Alonso
In this poster, we present basic concepts in palliative care, strong rationale for teaching future health care providers about palliative care, and survey data revealing limited knowledge and awareness about palliative care, hospice and advanced directives among future speech-language pathologists.
Strategies for Students on the Autism Spectrum

57. Life College: The Progression of Young Adults on the Autism Spectrum to Adulthood with the Use of a Transitional Program, Mark Petersen, Dee Kim, Megan Kile & Michelle Estacio

Transitional programs are an emerging area for occupational therapists. There is a need for more research on the topic of transitional programs for young adults on the Autism spectrum (ASD). This research focuses primarily on a particular transitional program based in Orange County, CA, in order to evaluate its effectiveness in the areas of social skills, independent living skills, and pre-vocational skills.

The Power of Words: From the Wings to Center Stage

58. Technology to Support Literacy for K-6 English Language Learners (ELLs), Mautumua Porotesano, Bhonna Gaspar & Loryn Gum

The Technology to Support Literacy for ELL professional development course was created by the NB-ELL Project to provide knowledge/strategies on using technology to support learning and meeting the Common Core State Standards to in-service teachers of ELLs at the grades K-6 reading levels. Evaluation results from 58 completers are presented.

59. Innovative Technologies: Creating Breakthrough Dual Language Word Learning Games through Co-Design with Deaf Children, Lynn McQuarrie

We present designs for interactive digital dual language (ASL-English) word learning games. Results from co-design sessions with bilingual deaf children serving as informants and design partners is outlined. The reusability of the software infrastructure for other interested developers is discussed.

Youth Transitions

60. Hospital-to-School Transitions for Youth with Acquired Brain Injury, Sally Lindsay

Acquired brain injury (ABI) is a leading cause of disability among children. A successful hospital-to-school reintegration is essential for rehabilitation. A systematic review of seven databases showed that most interventions involved one-to-one sessions homework activities, and parental involvement. Outcomes included at least one improvement in cognitive, social, or behavioral functioning.

61. Our Journey to Open Employment: Our Story, Amanpreet Kaur & Dale Lavender

One of the challenging issues facing students transitioning to work is keeping them engaged, motivated and interested in finding open employment. Often this is a result of family influences that may be negative surrounding their child being capable of gaining a job or planning for a career. We seek to gain family and supporters of the student early on, so that all of us together
can reach the goal of open employment. We will show the steps we take to get these students engaged with us through our training programs we have in place, whilst they are still in school and post school. Through these training programs we are able to gather information about their goals and barriers that may affect their ability to integrate into the workforce.

62. Dual Enrollment with Individualized Supports Program, Carol Lee-Arnold, Leslie Okoji, Marla Arquero, Ed McNulty & Genesis Leong
This poster presentation highlights the Dual Enrollment with Individualized Supports Project (DEIS). DEIS is designed to demonstrate and replicate a sustainable, comprehensive transition model supporting eligible students with intellectual disabilities to participate in postsecondary education. The project is based in Hawai‘i and has facilitated successful transition for high school students to community college campuses.