



HUMAN FACTORS  
and ERGONOMICS SOCIETY

# **CHILDRENS ISSUES TECHNICAL GROUP**

**News**

**2022 - 2018**

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**Find here CITG activities during HFES 2022**

As part of the Preliminary Program Outline, our Technical Group check here soon the CITG activities for 2022 during HFES 66th Annual Meeting

(Subject to change)

**Lecture**

*The impact of distance learning on physical activity, mental health, and learning among 4th graders during the COVID-19 pandemic*

Authors: Austin Sanders; Carisa Harris Adamson; Brittany Ballen; Alan Barr; Melissa Afterman; Michelle Robertson; Judith Okoro

**Abstract**

*The COVID-19 pandemic introduced additional concerns for childhood obesity, cardiometabolic disorders, and mental health among children from lower socioeconomic status (SES) households. This study aimed to understand how distance learning during the COVID-19 pandemic impacted health habits, mental health, and metabolic health of 4th graders in an under-resourced district. 4th graders from 3 elementary schools answered questions about their habits related to diet, physical activity, sleep, and hydration during the pandemic (distance learning). Students' height, weight, waist, and hip measurements were recorded to assess metabolic health. 4th graders (n = 40) reported an overall more productive learning environment and healthier lifestyle while in school compared to learning at home. Metabolic and mental health screening results suggest that schools and communities should address mental and physical health issues that may have been triggered or exacerbated by distance learning during the pandemic.*

**Poster**

*The Effect of Peer Influence on Parent Willingness to Transport Children in Autonomous Vehicles*

Authors: Allegra Ayala; Kyle Hickerson; Hannah Lettie; Yi-Ching Lee

**Abstract**

*When considering autonomous vehicles (AV) as a potential to increase the mobility of children, one must consider parent opinion, as parents make transportation decisions for their families. This decision making may be impacted by several factors including peer influence on technology adoption from other parents. The current paper examines the potential for the social influence of other parents to impact parent willingness to adopt AVs for their own teenagers. Early adopter status was found to be significantly related to willingness, while effects of sex and age were non-significant. These findings add to the literature that the perceived notion of being an early adopter of technology contributes to parent willingness to use AV for their adolescent children. Future research should examine social and technology readiness factors in the willingness and adoption of AV in children's mobility from a family perspective.*

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## **CITG activities during HFES 2020**

### **TG Business Meeting**

Wed, September 30, 5:30 - 7:30 PM ET

We'd like to invite you to attend our Technical Group's annual Business Meeting to learn more about the TG and ask any questions you may have. The Business Meeting this year will be held virtually the week prior to the conference, and not during the week's event.

Meeting registration link:

<https://smithbucklin.zoom.us/meeting/register/tJApde-ggjlPhteHL7QPhjR9uWnPo0lIRZC9>

Our agenda is the following:

- Introduction to the Board Members
- Member introductions
- Impact of the pandemic on children
- Open discussion on "Making School-From-Home Work For Students"

### **Alternative format**

Tue, October 6 at 11am

*Identifying Hazards at Residential and Commercial Pools: An Interactive Session*

*Author(s): Leah Hartman, Applied Building Sciences, Inc.; Stephanie Whetsel Borzendowski, Applied Building Sciences, Inc.; Alison Vredenburgh, Vredenburgh & Associates, Inc.; Ilene Zackowitz; Alan Campbell, Applied Building Sciences, Inc.*

### **Lecture/ Parallel session**

\* Thu, October 8 at 4pm - Lecture included in Education 4 session

*An Investigation of the Factors Predicting Participation in Social Media Challenges*

by Amro Khasawneh (1), Shraddhaa Narasimha (2), Kapil Chalil Madathil (2), Heidi Zinzow (2), & Patrick Rosopa (2). Institutions (1) Johns Hopkins University, (2) Clemson University

Join us at our first virtual Annual Meeting October 5 -9, 2020!

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## National Teen Driver Safety Week

Contrary to popular belief, teens crash most often because they are inexperienced. They struggle judging gaps in traffic, driving the right speed for conditions and turning safely, among other things. (NSC, InjuryFacts, 2018). US Department of Transportation set National Teen Driver Safety Week for 2020. It is expected that during this week (and every week) parents should have conversations with their teens about how to stay safe behind the wheel of a motor vehicle.

It's necessary to talk about rules that address the greatest dangers for teen drivers: alcohol, inconsistent or no seat belt use, distracted and drowsy driving, speeding, and number of passengers.

### Facts about Teen Driver Fatalities

- Motor vehicle crashes are the leading cause of death for teens (15-18 years old) in the United States, ahead of all other types of injury, disease, or violence.
- In 2017, there were 2,247 people killed in crashes involving a teen driver, of which 755 deaths were the teen driver - a 3% decrease from 2016.
- Parents can be the biggest influencers on teens' choices behind the wheel if they take the time to talk with their teens about some of the biggest driving risks.

Read more about at US DoT [website for this campaign](https://www.trafficsafetymarketing.gov/get-materials/teen-safety/national-teen-driver-safety-week).

<https://www.trafficsafetymarketing.gov/get-materials/teen-safety/national-teen-driver-safety-week>

## **Mechanical Suffocation is the No. 1 Cause of Infant Death**

According to NSC Injury Facts (2018) "Mechanical suffocation constituted the majority (80%) of all injury-related mortality cases for infants. Infants who die from mechanical suffocation lose the ability to breathe due to strangulation, or smothering by bed clothes, plastic bags or similar materials."

You can check more at the [NSC website](https://www.nsc.org/home-safety/safety-topics/child-safety/mechanical-suffocation-infants).

<https://www.nsc.org/home-safety/safety-topics/child-safety/mechanical-suffocation-infants>

At [Safekids.org](https://www.safekids.org/tip/sleep-safety-and-suffocation-prevention-tips) you can find some sleep safety and suffocation prevention tips.

<https://www.safekids.org/tip/sleep-safety-and-suffocation-prevention-tips>

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## Coronavirus and COVID-19: taking care of our children and teens

Since March 2020 the world is under a pandemic. Spread from Wuhan, China, the coronavirus got the world. Quarantine, face masks, cleaning, and disinfecting our homes are routines.

CDC (Centers for Disease Control and Prevention) broadcast information about symptoms, prevention, among other ways to deal with coronavirus, since the beginning of this pandemic.

The website, that is frequently updated, bring some important information about:

- \* how to keep children healthy during the outbreak ([read here](#)), including guidance for parents to ensure children and young people's social, emotional, and mental well-being ([check here](#));
- \* what to do when deciding going out and return to daily activities ([read here](#));

These topics, among many others you can find at the links above or at [CDC main site to COVID-19](#).  
<https://www.cdc.gov/coronavirus/2019-nCoV/index.html>

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## CITG session and Business Meeting during HFES 2019

### Parallel Session

This year CITG has one session during HFES 2019, Tuesday, October 29, 2:00-3:30 pm.

We'll share ideas during the presentation of the following papers:

1. Ergonomics in Elementary School: A Multi-faceted Approach for laptop Computers in the Classroom, M. Afterman (Learn Ergo).
2. A Human Factors Approach to Central Line Associated Bloodstream Infection (CLABSI) Prevention and Safety Culture in the Pediatric Intensive Care Unit Pilot Report, N. Bishop (Weill Cornell Medicine), S. Osorio (Cornell), R. Zadeh (Cornell University), E. Capezuti (Hunter College of CUNY), J. Lee (Weill Cornell Medicine)
3. Developing an Interactive Survey Instrument to Capture Hospitalized Children's Experience, H. Ali (Auburn University), A. Cole (Auburn University), A. Sienkiewicz (Auburn University), M. Hossain (Auburn University), T. Ho (Auburn University).
4. Falls From Shopping Carts Versus Household Products Among Young Children, F. Khan (Rimkus Consulting Group), K. Glazek (Rimkus Consulting Group), J. Todd (Rimkus Consulting Group), S. Alper (Bold Insight).
5. An Investigation of the Portrayal of Blue Whale Challenge on Youtube and Twitter, A. Khasawneh (Clemson University), K. Chalil Madathil (Clemson University), E. Dixon (University of Maryland, College Park), P. Wisniewski (University of Central Florida), H. Zinzow (Clemson University), R. Roth (Clemson University).

### Business Meeting

CITG will be holding a joint business meeting with EDTG on Wednesday, October 30, 05:30-06:15 pm. TGs will receive Dr. Amy Wagenfeld as keynote speaker, presenting for 20-30 minutes on *Sensory gardens for children with ASD for Kids Gardening and National Head Start*. Prof. Karen Jacobs will moderate the discussion.

After the presentation, each TG will hold their separate annual business meetings.

## **U.S. Department of Transportation Announces \$1.8 Million to Enhance Highway Safety**

The U.S. Department of Transportation's National Highway Traffic Safety Administration today announced \$1.8 million in funding – with eligibility for up to \$6.4 million in the future – to provide critical support for five non-governmental partner organizations to enhance safety on the nation's highways. The agreements will fund projects to combat impaired driving, support the 911 network, enhance safety messaging for young drivers, and give technical assistance to state officials on a wide range of traffic safety issues.

"This funding will help NHTSA and our partners improve highway safety for all, and will provide critical leadership for reducing the incidence of driving under the influence of drugs and alcohol," said James Owens, Acting Administrator of NHTSA. "Together with our partners, we can create change and make traveling safer for everybody."

For more information check <https://www.nhtsa.gov/press-releases/us-department-transportation-announces-18-million-enhance-highway-safety>.



## Some papers published about Children's safety in 2019 (1/2)

Harazneh, L. and Hamdan-Mansour, A. (2019) Resiliency Process and Political Socialization among Palestinian Children Exposed to Political Traumatic Experience: An Integrative Review. *Open Journal of Nursing*, 9, 303-312.

<https://doi.org/10.4236/ojn.2019.93029>

Hoynes, Hilary and Stabile, Mark, (2019) "How Do the US and Canadian Social Safety Nets Compare for Women and Children?," *Journal of Labor Economics* 37, no. S2 (July 2019): S253-S288. <https://doi.org/10.1086/703260>

Lichenstein, Richard; Monroe, David; Quayle, Kimberly S. et al. (2019) Television-Related Head Injuries in Children. A Secondary Analysis of a Large Cohort Study of Head-Injured Children in the Pediatric Emergency Care Applied Research Network. *Pediatric Emergency Care*: November 6, 2015 - Volume Publish Ahead of Print. doi: 10.1097/PEC.0000000000000605

Mangelsdorf, Shaminka N; Mehl, Matthias R. et al. How Do Mothers and Fathers Interact With Their Children After An Injury? Exploring the Role of Parental Acute Stress, Optimism, and Self-Efficacy. *Journal of Pediatric Psychology*, 44(3), 2019, 311–322 doi: 10.1093/jpepsy/jsy107

O'Toole, Sarah E. & Christie, Nicola (2019) Educating parents to support children's road safety: a review of the literature, *Transport Reviews*, 39:3, 392-406, DOI: 10.1080/01441647.2018.1499678

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## Some papers published about Children's safety in 2019 (2/2)

Peyravi, Golnaz , Joya, Mohammadreza , Vafaeinezhad, Reza. (2019) Epidemiologic study of drowning in Mashhad during 2014-2017. Injury & Violence. Volume 11, Suppl. 1 July 2019 Publisher: Kermanshah University of Medical Sciences

Stockwell, David C; Landrigan, Christopher P., Toomey, Sara L. et al. (2019) Racial, Ethnic, and Socioeconomic Disparities in Patient Safety Events for Hospitalized Children. HOSPITAL PEDIATRICS Vol. 9 No. 1 January 01, 2019, pp. 1-5, doi:[10.1542/hpeds.2018-0131](https://doi.org/10.1542/hpeds.2018-0131)

van der Hulst M, Bertens LCM, de Graaf H, Steegers EAP. (2019) Sufficient exercise: mother's perceptions on neighbourhood safety and quality of outdoor playgrounds in Rotterdam. International Journal of Integrated Care (IJIC). 2019;19(S1):1-2. doi:10.5334/ijic.s3063.

Willoughby, Mark (2019) A review of the risks associated with children and young people's social media use and the implications for social work practice, Journal of Social Work Practice, 33:2, 127-140, DOI: 10.1080/02650533.2018.1460587

Yeshayahu Hutzler, Stefan Meier, Sabine Reuker & Michelle Zitomer (2019) Attitudes and self-efficacy of physical education teachers toward inclusion of children with disabilities: a narrative review of international literature, Physical Education and Sport Pedagogy, 24:3, 249-266, DOI: 10.1080/17408989.2019.1571183.

## **Children's safety the focus for Labour Day 2019 in Jamaica**

Children's safety is the focus of activities being organised by the Government to commemorate Labour Day this year, on Thursday, May 23. Minister of Culture, Gender, Entertainment and Sport, Olivia Grange, says special emphasis is being placed on instituting safeguards for children on the roads and at schools.

“It is timely, and I think we should also address... the safety of our children from predators. We cannot overlook (this) in our planning and discussions, (as to) how we will address it in a public way,” she said.

Read more <https://jis.gov.jm/labour-day-activities-focusing-on-childrens-safety/>

## **UAE launches 'Child Digital Safety' initiative**

The UAE has launched the 'Child Digital Safety' initiative to raise awareness among children about safe internet use.

It also familiarises parents and educators with solutions they can use to address these challenges.

The initiative was launched on Emirati Children's Day on March 15 as part of a series of steps to be undertaken to raise digitally literate generations

[Read more https://gulfnews.com/uae/uae-launches-child-digital-safety-initiative-1.62713198](https://gulfnews.com/uae/uae-launches-child-digital-safety-initiative-1.62713198)

## **Submit a paper to CITG/ HFES 2019**

Submit your paper to until March 18th, 2019 and join CITG activities during HFES 2019, this year, including Ergo X Symposium.

Make plans to attend and participate in the 63rd International Annual Meeting of the Human Factors and Ergonomics Society! The annual meeting will take place in exciting and iconic downtown Seattle from October 28 to November 1, 2019. Seattle is home to many well-known and important companies and features a strong human factors history and community. Amid this backdrop of beauty and innovation, we invite you to submit your work for presentation and publication at the annual meeting.

Read more <http://www.hfes2019.org/>

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## **HFES 2018 Silent Auction: A week left to showcase your creativity!**

Do you paint or draw? Sculpt? Sew? Craft? If you do, HFES invites you to submit your creation for the Silent Auction. Proceeds from the auction will help to support travel to next year's Annual Meeting for students and others who have never attended.

Example items pledged for auction: Children's book, Artwork, Sculpture, Beer with David Rempel, and more!

The Silent Auction will take place during the Opening Reception on Monday, October 1. Please send the following details to Lois Smith no later than August 31:

- Name and contact information
- Title of the work being donated
- Description of the work, including dimensions, weight, etc.
- Photo of the work
- Minimum bid
- Preferred method for getting the work to Philadelphia.

Contact Lois with any questions 310/394-1811, or [lois@hfes.org](mailto:lois@hfes.org)

## **2018 CITG Officer Election results**

The results of the election were:

Program Chair – Ilene Zackowitz

Program Chair-elect – Melissa Beran

Congratulations to our new officers!

## **CITG sessions, Business Meeting and Technical Tour during HFES 2018 (1/2)**

This year CITG has two sessions, both on October 2, afternoon.

### **CI1 - Trends in Infant Sleep: What Do the Data Show? What Are Caregivers Thinking?**

Discussion Panel: Rana Balci-Sinha, Suad Nakamura, Celestine Kish, Hope Nesteruk & Carol Pollack-Nelson

Chair: Rana Balci-Sinha, US Consumer Product Safety Commission

Date & Time: October 2, 1:30-3:00pm

Location: Room Franklin 10 (Level 4)

### **CI2 – Children’s Issues**

Chair: Karen Jacobs, Boston University

1. An examination of icons, signal words, color, and messages in warning for children on the internet.
2. Authors: Helen Zaikina-Montgomery & N. Silver
3. Who would out their child alone in an autonomous vehicle? Preliminary look at gender differences.
4. Authors: Somer Hand & Yi-Ching Lee
5. Evaluating children’s interactions with touchscreens from 0 to 8 years old.
6. Authors: Sommayah Soliman & Dan Nathan-Roberts

Date & Time: October , 3:30-5:00pm

Location: Room Franklin 10 (Level 4)



## **CITG sessions, Business Meeting and Technical Tour during HFES 2018 (2/2)**

### **Business Meeting**

The CITG will be holding a joint business meeting with METG and EDTG on Wednesday, October 3 3:30-4:45pm. There will be a panel discussion on preventing school violence. Thus far, the panelists are Dr. Brian M. Kleiner, Director & Bogle Professor of Industrial & Systems Engineering, Virginia Tech and Kathy Kotchick, a teacher from the French International School of Philadelphia. Prof. Karen Jacobs will moderate the discussion.

### **Technical Tour**

During HFES registration, you can include **T5 – Children’s Hospital of Philadelphia (CHOP) Center for Simulation, Advanced Education and Innovation**, University of Pennsylvania Perelman School of Medicine

Simulation for health care professionals is an exciting, rapidly evolving field with enormous potential for use by human factors experts. The Children’s Hospital of Philadelphia (CHOP) has been a leader in developing health care simulation, including in situ or point-of-care learning. The CHOP tour will include demonstrations of a variety of full-scale high- and low-technology adult, pediatric, and infant realistic computerized manikin robots that “breathe” and respond to medical interventions in real time. Also covered in the tour are task trainers representing a variety of body parts used to learn procedures, and CHOP’s unique “Operating Room 12,” which is a real, functioning OR with built-in simulation enhancements. Presentations will address the use of simulation to develop the skills of individuals and teams as well as to develop and test system improvements and the evolution to a peak performance laboratory. Depending on clinical circumstances, the tour may include visits to the simulation-enabled Neonatal Education and Simulation Training Center (NEST) and the Emergency Department Trauma Bay, where live-capture audio-video analysis of both simulated and real clinical emergency events can be captured, re-enacted, analyzed, and improved. Attendees will have an opportunity to brainstorm about the intersection of human factors and health care...a tour of the learning system and ward of the next century.

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## 2018 CITG Officer Election

Until Friday, August 3, 2018, Carol Pollack-Nelson received the ballot for the election of new officers.

For Program chair the candidate was Ilene Zackowitz, Ph.D., and for Program Chair-elect, the candidates were Melissa Beran, M.A., and Mike Kalsher, Ph.D. You can check here the bios of these candidates.

### SUBMITTED BIOS

**Melissa Beran, M.A.** has been a Senior Human Factors Specialist with Underwriters Laboratories (UL) in Westmont, Illinois, USA for the past 7 years, where she is active in consumer product safety. Previously, she served as a Research Scientist with Intertek for 11 years. Melissa is a member of the Human Factors and Ergonomics Society and has presented at national conferences on such topics as the foreseeable use of consumer products and the various behavioral strategies used by children as they explore. Melissa also recently presented on the topics of “Human Factors, Age Grading and Design Evaluations” at the US CPSC’s Design for Safety: Mechanical Hazards Training Seminar in Guangzhou, China in September, 2017.

**Michael Kalsher, Ph.D.** is a faculty member in the Department of Cognitive Science at RPI and has served as Associate Dean for Academic Affairs for the School of Humanities, Arts & Social Sciences for the past four years. Since coming to Rensselaer in 1988, he has carried out and published nearly one hundred peer-reviewed papers and book chapters on a variety of applied topics in the related fields of psychology and human factors. Professionally, Kalsher has served in a number of administrative capacities (i.e., Chair, Program Chair) for the Safety and Forensics Professional technical groups, including chairing the Arnold M. Small Safety Lecture Series that has been running continuously for more than a quarter century.

**Ilene Zackowitz, Ph.D.** has been working in the field of forensic human factors for 20 years at Vredenburg & Associates, Inc. She is a Certified Professional Ergonomist (CPE). She performs both litigation and industrial-organizational consulting and publishes original research in the areas of human factors and safety. She frequently investigates and testifies on cases that involve children including age-related developmental issues, adequacy of supervision and special needs populations. Ilene has held several leadership positions in the Forensic Professional and Safety HFES technical groups.

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## Two awards available to support Students at HFES 2018

The Council of Technical Groups will again offer two opportunities for students to apply for funding to assist them in attending the 2018 Annual Meeting in Philadelphia on October 1-5. Applications for both awards are due May 15, 2018.

The Council of Technical Groups Travel Award for First Year Graduate Students (formerly the First-Year Student Travel Honorarium Program) provides \$599 for graduate students who are in the first year of their academic program (entered the program no earlier than Fall of 2017). Students must be members of HFES at the time of application. Applicants who submit completed applications will be selected through a process that first randomizes across program/departments (to maximize distribution of awards across programs) and then randomizes within a program. View the complete details and application form at <http://bit.ly/HFES1stYearStudentAward>.

The Council of Technical Groups Student Presenter Award provides \$599 to students who are authors of accepted papers or posters for the HFES Annual Meeting. The student must be listed as the presenting author of the work at the time of submission. Students must be members of HFES at the time of application. Nominations for this award must be submitted by a faculty member in the student's program. (The nominator does not have to be an advisor or coauthor of the work).

Full details and the application form may be found at <http://bit.ly/HFESStudentPresenterAward>.

Students who are granted these awards will receive a check at the Annual Meeting.

Members who would like to make a tax-deductible donation to HFES to help support these student awards can find a contribution form at [http://cms.hfes.org/Cms/media/CmsImages/HFES\\_Giving\\_Opportunities.pdf](http://cms.hfes.org/Cms/media/CmsImages/HFES_Giving_Opportunities.pdf).

**HFES Bulletin, Source: January, 2018.**

## HFES 2018

The Children's Issues TG welcomes you for the 2018 HFES Conference to be held in Austin, TX October 9-13. The TG received proposals relating to HF/E issues affecting children up to 18 years of age including the following topics:

- Child development
- Child safety
- Hazards/safety in environments where children live, play, and visit (i.e., home, school, vehicle, recreational, on-line)
- Injury prevention
- Children's motivation, behavior, physical and cognitive abilities and limitations
- Product design and usability
- Caregiver behavior including child supervision practices, caregiver workload, and decision-making

If you have any questions, please contact us!