Safety by Design Charrette
Spring 2022 (revised 01/10/22)

Goal:
To design a set of objects/products, a space, a building or an urban environment that incorporates features that support human safety and address an injury risk. Examples might include crutches that are designed so they can be propped up without falling on the floor and causing a trip hazard, hospital socks that alert staff when a memory patient has stepped out of bed, building entrances with thresholds that support wheelchair movement, urban parks that invite community activity while ensuring safety from crime.

Background:
The objects and spaces we encounter in day-to-day life may result unexpected injuries. In workplaces the primary causes of injury are materials handling; slips, trips and falls; being struck by or colliding with an object or incidents involving tools. In homes, injuries caused by falls down stairs; fires that originate from heating and cooking appliances; and scald burns from water that flows from the tap too hot result in emergency department visits, hospital stays and deaths that could have been prevented with more thoughtful design.

Teams:
- Composition: 3- to 4-person teams that include students from both Cornell (design and engineering) and Johns Hopkins (public health, engineering and medicine)
- Formation: Identify your local university team partner and charrette organizers will link you with participants from the other university.

Submission requirements:
- Letter of intent to participate
- Narrative describing safety issue and summary of the injury problem the design innovation will address
- Description of persons who would benefit from the proposed design intervention
- Graphic/written description of available or existing object/environment
- Graphic/written description of proposed object or environment including plans (where applicable), 3-dimensional representations (computer rendering or physical prototypes)
- All materials should be provided in two formats: 1) a 20-slide summary for presentation and 2) a digital graphic document that can be printed on two 30” by 40” boards.

Projects will be judged based on the following criteria:
1. Process. Depth of research leading to an evidence-based solution
3. Human-centered. Focus on and description of the population served by the solution.
4. Innovation. Uniqueness of the solution
5. Implication for practice. The degree to which a solution is feasible and potentially impactful.

Schedule:
February 1, 2022  Charrette announced
February 15, 2022  Submit your intention to participate to Wendy Shields wshields@jhu.edu
March 1, 2022  Teams from Cornell and Johns Hopkins assigned
March 30, 2022  Submissions due
April 1, 2022  Semi-finalists announced
April 10, 2022  Semi-finalists present
April 17, 2022  Winners announced

Awards: Cornell-Johns Hopkins Safety by Design Challenge
- First place $5,000
- Second place $2,000
- Third place $1,000

Jurors chosen by:
Cornell Institute for Healthy Futures Directors and Advisory Board
Johns Hopkins Center for Injury Research and Policy faculty and Board Members

Letter of Intent to participate from Johns Hopkins Students should be sent to Wendy Shields wshields@jhu.edu by February 15th.