

Security and the Rule of Law

Bios and Headshots

Chair: Dr. Joseph Hughes

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Description of Theme and Research Question

Research Question: **Does the sharing of global security solutions increase ethical design in engineering?**

The lack of resilience across our institutions since the pandemic spiraled the world into many new issues, one of the largest being security and the rule of law.

Security is a term with an open interpretation; whether we view it globally or locally, security is a personal subject matter that should be considered one of the most vital components of an individual's life. How security is recognized within the rule of law provides clarity to examining the inequalities and privileges of the current world, especially since the pandemic.

As embedded systems have made political change difficult, it is crucial to recognize the need for grassroots empowerment and agency of local solutions placed into practice to cope with issues of security. To think global and act local is to unite these voices from around the world and share and highlight the local solutions. This aims to create a path for academia to engage and empower local solutions and share these to help all communities benefit from collectivizing intelligence from local voices.

In 2018, at WEED-GEDC-2018, we defined Peace Engineering as the intentional application of systemic-level thinking of science, technology, and engineering principles to promote and support peace conditions directly. Peace Engineering works directly towards a world where prosperity, sustainability, social equity, entrepreneurship, transparency, community voice and engagement, ethics, and quality thrive. Engineers have the power to play a vital role in the creative solutions that can radically transform and improve people's wellbeing and other living systems, day to day. We want a new mindset for all existing disciplines, not only engineering, and new ones we have to create to address the global challenges.

We are raising awareness on sharing and highlighting the local solutions tackling security that have arisen since the pandemic, respect agency, and further, empower these practices.

Description of Activity

We will host an interactive panel of industry experts, academicians, and students to raise awareness about the challenges of security and the rule of law and its necessity to change engineering practices to include: ethical design, ethical investment incentives, and context awareness. This focuses on the intersection of four themes:

1. Water Security
2. Violence Against Women

3. Climate Change
4. Supply Chains

Impact Plan

This panel will be the start to increasing the importance of positive sustainable impact based on negative circumstances. Through contests held between 2020 - 2021 engaging students from around the world from diverse academic backgrounds to create solutions that can be measurably implemented to promote the necessity for the intersection of peace and engineering.

Timeslots

TBD