

## GREEN STEM SUMMIT PROGRAM SCHEDULE

SATURDAY - OCTOBER 24, 2020

|                 | TRACK 1                                                                            | TRACK 2                                                          | TRACK 3                                                                    | TRACK 4                                                                  | TRACK 5                                                                | TRACK 6                                                                                                 |
|-----------------|------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| TIME (PST)      | Engineering & Technology                                                           | Advanced Manufacturing                                           | Natural & Physical Sciences                                                | Environmental Art Ethics & Design                                        | Biomimicry & Biotechnology                                             | Special STEM Opportunities & Animal Exhibit                                                             |
| 8:00 AM         | Welcome and Program Overview                                                       |                                                                  |                                                                            |                                                                          |                                                                        |                                                                                                         |
| 8:15 AM         | Charles Chase<br>UnLab<br>Disruptive Technologies                                  | Lisa Bird<br>McCormick<br>Sustainable Foods                      | Mason Burke<br>Lockheed Martin UK<br>Physics/Missiles                      | Paulina Castrellon<br>Lockheed Martin ADP<br>Environmental & Safety      | Kyle Alvine, PhD<br>Lockheed Martin ADP<br>Bioinspired Design          | Gretchen Hooker<br>Biomimicry Institute<br>Youth Design Challenge                                       |
| 8:30 AM         | Lt Col David Lewis<br>DARPA<br>USAF Lt Col and Physicist                           | Don Kinar, PhD<br>Lockheed Martin Aero<br>Advanced Mfg           | Anne Weiss, PhD<br>NASA Langley<br>-Environmental Impacts of COVID         | Sarah Gucker, PhD<br>Lockheed Martin ADP<br>Plasma Water Treatment       | Colin Mangham<br>BiomimicryLA<br>Net Zero Buildings                    | Aaron Dolgin<br>Northrop Grumman<br>Project 691 Robotics                                                |
| 8:45 AM         | Jim Gimzewski, PhD<br>UCLA<br>Chemistry Research                                   | Kristyn Kadala<br>Lockheed Martin ATC<br>Materials/Manufacturing | Cynthia Carter<br>Sanitation Districts of LA<br>Food Waste to Energy       | Jeannie Chari<br>College of the Canyons<br>Environmental Science         | Alex Ralevski, PhD<br>Biomimicry Institute<br>AskNature.org            | Erin Rovalo, PhD<br>ILF Institute<br>Director of Education                                              |
| 9:00 AM         | Dan Sievenpiper, PhD<br>UCSD<br>Electrical Engineering                             | Dan Hecht<br>Lockheed Martin ADP<br>Recycling Composites         | Joe Hess<br>Gilead Sciences<br>Pharma EHS                                  | Jessica Synoski<br>AstraZeneca<br>Pharma Sustainability                  | Marjan Eggermont, PhD<br>University of Calgary<br>Mechanical & Mfg Eng | Jonathan Gonzalez<br>Raptor Events<br>Eurasian Eagle Owl Exhibit                                        |
| 9:15 AM         | Sharlea McMurtry<br>Lockheed Martin RMS<br>GPS III Satellite/Cyber                 | Missy Showers, PhD<br>Lockheed Martin ADP<br>Fusion Energy       | Dayanni Bhagwandin<br>UCLA PhD Student<br>Chem/Biochem Diversity           | Danielle Mendoza<br>Lockheed Martin ADP<br>Environmental & Safety        | Melissa Rhoads, PhD<br>Lockheed Martin Space<br>Synthetic Biology      | Tracy Fanara, PhD<br>NOAA Research<br>Coastal Weather Modeling                                          |
| 9:30 AM         | Jason Shibata<br>Booz Allen Hamilton<br>Sr Lead Engineer                           | Evan Wong<br>Lockheed Martin RMS<br>Wind Towers                  | Lisa Shiba<br>Walt Disney Co<br>Disney Sustainability                      | Katie Ochoa<br>L3-Harris<br>Aerospace Sustainability                     | Katie Germane-Akingbade<br>Army Research Lab<br>Biotechnology          | Megan Schuknecht<br>Biomimicry Institute<br>Biomimicry Careers                                          |
| 9:45 AM         | Natalie Gogotsi, PhD<br>Lockheed Martin ADP<br>Optics & Photonics                  | Jessie Buckmaster<br>Hathaway Dinwiddie<br>LEED/Green Buildings  | Christine Nguyen<br>Gilead Sciences<br>Bioengineering                      | Yarissa Martinez<br>US EPA Region 9<br>Government Env Career             | Kristen Benjamin, PhD<br>Amryris<br>Applied Synthetic Biology          | Loyda Ramos<br>Tree People<br>Volunteer Opportunities                                                   |
| 10:00 AM        | Paige Brown<br>Stanford University<br>WindBorne Systems                            | Gary Lai<br>MIG<br>Green Architecture                            | Stephanie Pacheco<br>Tetra Tech<br>Biology Field Work                      | John Dahl<br>Sanitation Districts<br>Industrial Wastewater               | Deepti Tanjore, PhD<br>Berkeley Labs<br>Synthetic Biology Research     | Jonathan Gonzalez<br>Raptor Events<br>Augur Buzzard Exhibit                                             |
| 10:15 AM        | John Rhoads, PhD<br>Lockheed Martin ADP<br>Aerodynamics                            | Dan McAdams, PhD<br>Texas A&M University<br>Functional Modeling  | Nicole Fuentes<br>Lockheed Martin ADP<br>Industrial Hygiene                | Sarah McInerney<br>University of Akron<br>Biomimicry PhD Research        | Lily Urmann<br>Arizona State University<br>Biomimicry Center Ed.       | Tamara Robertson<br>Chemical Engineer<br>TV Host, Engineering<br>Mythbusters Jr.<br>(30-Minute Session) |
| 10:30 AM        | Leonard Ortiz<br>Mars Society<br>NASA Missions                                     | Dion Antao, PhD<br>Texas A&M University<br>Fluid Dynamics        | Anastacia Feoktistova<br>Drexel University<br>Ecology Student              | Ken Herrera<br>So Cal Edison<br>Environmental Operations                 | Michael Helms, PhD<br>Georgia Tech<br>Bioinspired Design Center        | Jonathan Gonzalez<br>Raptor Events<br>Lennar Falcon Exhibit                                             |
| 10:45 AM        | Michael Pachillo, PhD<br>Northrop Grumman<br>Nuclear Engineering                   | Astrid Layton, PhD<br>Texas A&M University<br>Biomimetics        | Mara Orescanin, PhD<br>Naval Post Graduate School<br>Oceanography Research | George I. Matsumoto, PhD<br>Monterey Bay Aquarium<br>Ocean Research      | Jacquelyn Nagel, PhD<br>James Madison Univ<br>Bioinspired Design       | Symone Barkley<br>/Kameron Feggins<br>National Aquarium in<br>Baltimore, MD<br>30-Min Virtual Tour      |
| 11:00 AM        | Ed Boesiger, D.Eng<br>Lockheed Martin Space<br>Space Mechanisms                    | Jon Felts, PhD<br>Texas A&M University<br>Nanomanufacturing      | Frederick Schuknecht<br>Lockheed Martin Aero<br>Environmental Sciences     | Laura Page<br>Living Classrooms<br>Chesapeake Bay Blue Crab              | Billy Almon<br>Biology-Inspired Futurist<br>Wildlife TV Host           | Jonathan Gonzalez<br>Raptor Events<br>Lennar Falcon Exhibit                                             |
| 11:15 AM        | Marie Weber<br>Lockheed Martin RMS<br>Software for GPS                             | Chris Dickey<br>Lockheed Martin ADP<br>Advanced Quality Tech     | Luke Gilpin<br>Lockheed Martin Aero<br>Environmental & Safety              | Nick Iannacone<br>Living Classrooms<br>Oysters role in Bay's             | Colleen Unsworth, PhD<br>Nataverse LLC<br>NASA VINE Project            | Symone Barkley<br>/Kameron Feggins<br>National Aquarium in<br>Baltimore, MD<br>30-Min Virtual Tour      |
| 11:30 AM        | Ace Barnes<br>Lockheed Martin RMS<br>Lifesaving Helicopters                        | Grace Gu, PhD<br>UC Berkeley ME<br>Additive Mfg & AI             | Chiara D'amore, PhD<br>Community Ecology Inst<br>Connecting with Nature    | Michael Wierzbicki<br>Anne Arundel County PS<br>Restoring Chesapeake Bay | Vikram Shyam, PhD<br>NASA Glenn<br>PeTaL Project                       | Kieth Barger<br>Space Foundation<br>Careers in Space                                                    |
| 11:45 AM        | Joseph Schimek<br>Lockheed Martin RMS<br>ME and UAVs                               | Tonya Beatty<br>UC Berkeley Student<br>Space Exploration         | Kathleen Rowland<br>Sikorsky M&P<br>Environmental Technician               | Michael O'Donnell<br>Anne Arundel County PS<br>Restoring Chesapeake Bay  | Lauren Friend<br>NASA Ames<br>R&D Engineer                             | Jonathan Gonzalez<br>Raptor Events<br>Harris Hawk Exhibit                                               |
| 12:00 PM        | Emily Delaney<br>Lockheed Martin RMS<br>Tidal Turbines                             | Ben Morgan<br>Materials Scientist<br>Additive Manufacturing      |                                                                            |                                                                          |                                                                        |                                                                                                         |
| 12:30 PM        | Announcement of STEM Research Video Competition Winners & Summit Wrap Up (Track 6) |                                                                  |                                                                            |                                                                          |                                                                        |                                                                                                         |
| TIME (PST)      | Engineering & Technology                                                           | Advanced Manufacturing                                           | Natural & Physical Sciences                                                | Environmental Art Ethics & Design                                        | Biomimicry & Biotechnology                                             | Virtual Exhibit Hall & Animals                                                                          |
| SCEEC Moderator | Dr. Jia-Yi Cheng Levine<br>College of the Canyons                                  | Missy Showers<br>Lockheed Martin                                 | Kathie Martin<br>SCV Water                                                 | Jason Oliver<br>College of the Canyons                                   | Michael Haro<br>Lockheed Martin                                        | Victoria Wood<br>Wood Environment                                                                       |

Saturday, October 24, 2020

- Teachers/Mentors Register [Here](#)
- Students Register [Here](#)

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