

**2024 Annual Engineering Design EXPO**  
**Friday, April 26, 2023, from 9:00 am – 12:00 pm**  
**ICCU Arena (U of I campus, Moscow)**

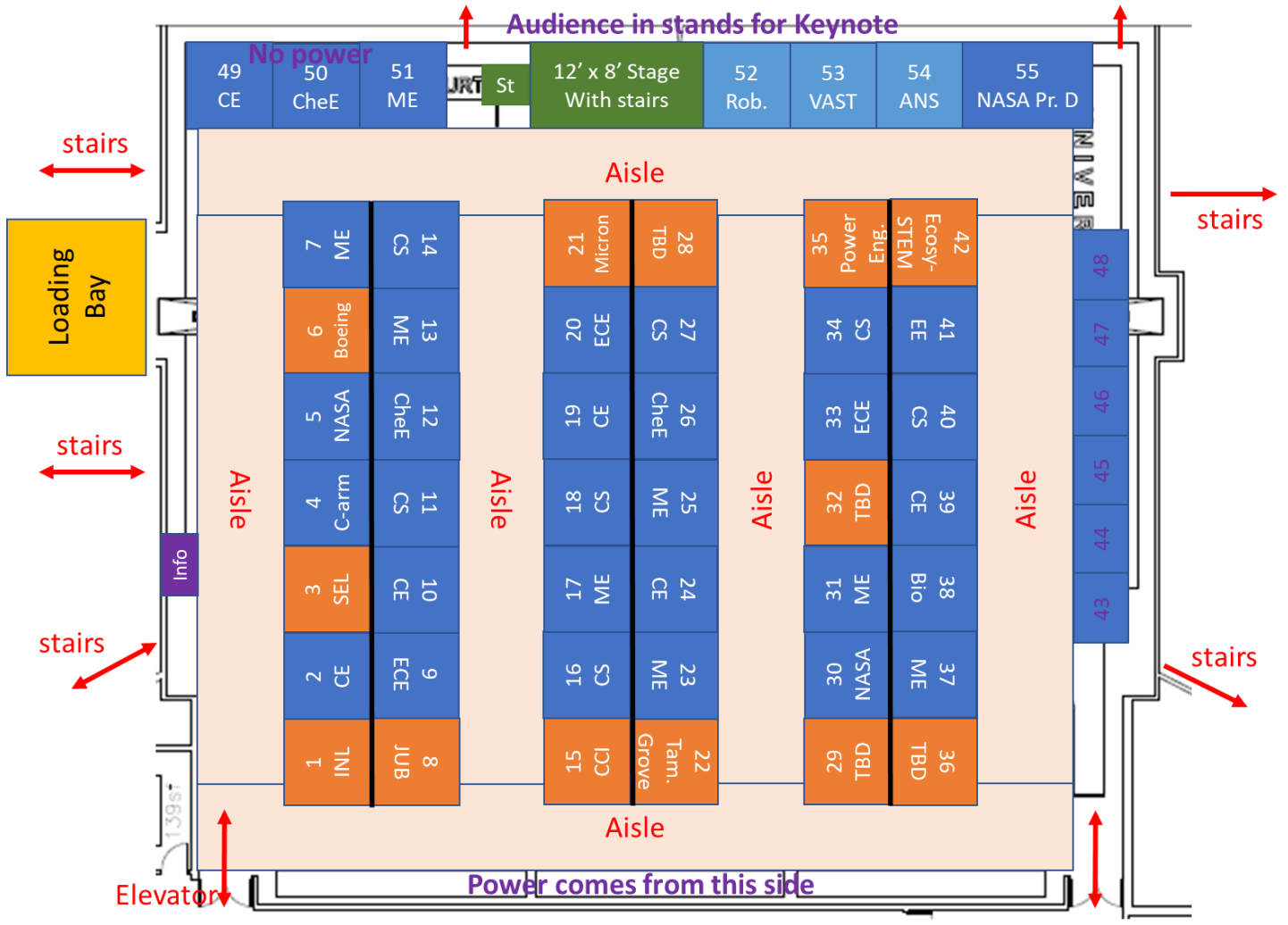
Green = Indoors

Red = Outdoors

<u>Booth #</u>	<u>Project Name</u>	<u>Project Sponsor</u>	<u>Lead Dept.</u>	<u>Instr.</u>
<b>Group A (CEE) – 6 booths</b>				
19	Arcadia Lake Pump Station (CE)	DC Engr. & Schn. Engr.	CEE	RN
39	Liberty Park Terrace Apartments Phase II	Coffman Engineers	CEE	RN
2	The Summit at 11th	KPFF	CEE	RN
10	Redesigning Thain and 10th Intersection in Lewiston, Idaho	Kittelson & Associates	CEE	RN
24	Snake River Road Improvements	Consor Engineering	CEE	RN
49	Crow Pump Diversion	DOWL Engineering	CEE	RN
<b>Group B (ChemE) – 3 booths</b>				
26	The Sustainable Application of a Pacific Northwest Biochar...	C6 Forest to Farm	ChemE	MB
12	Electrolysis for Sustainable Generation	WERC	ChemE	MB
50	Green Gas: Converting Renewable Energy to Synthetic Nat. Gas	Am. Inst. of Ch. Engrs	ChemE	MB
<b>Group C (CS + Cybersecurity) – 6 booths</b>				
18	Intensity-based Alignment of Laser Devices	Hansen Photonics	CS	BB
16	Gamified Virtual Worlds and Computer Simulation	UI CS Dept.	CS	BB
34	A Computer Network-related Game for Educational Purposes	UI CS Dept.	CS	BB
11	Using Deep Learning to Provide Feedback for Remote...	UI CS Dept.	CS	BB
27	Modeling Cybersecurity Threats with a Ferris Wheel	UI CS Dept.	CS	BB
40	Empowering Health Through Design: ML Solutions for Breast...	UI CS Dept.	CS	BB
<b>Group D (Interdisciplinary) – 6 booths</b>				
4	Relocation Guidance System for C-Arm Medical Imaging	Dr. Hiller	ME	PY
14	Smart Plank Inspection and Navigation for Timber Evaluation...	Wildwood Grilling	CS	JS
55	Prandtl-D: Advancing Autonomous UAVs for Wildfire Prev.	NASA ISGC	ME	PY
5	The University's First Foray into CubeSat Payload Development	NASA ISGC/ARC	ECE	KS
30	Robotic Assembly of Photovoltaic Arrays	NASA ISGC	ME	MM
38	Bioreactor System to Explore Cell Response	UI BE Dept. & St. Sol.	BE	RQ
<b>Group E (ECE + BE) – 4 booths</b>				
20	Arcadia Lake Pump Station (EE)	DC Engr. & Schn. Engr.	ECE	KS
41	Make Household Power More Efficient Than Usual!	Idaho Power	ECE	KS
33	Portable LED Athletics Scoreboard	Friday Night Flag	ECE	KS
9	Shock Circuit for Virtual Fence System	UI BE Dept.	BE	RQ
<b>Group F (ME) – 4 booths</b>				
17	INL Uranium, Glass & Dust Separation	Idaho National Lab.	ME	MM
37	Automatic End of Arm Tool Changer	Bastian Solutions	ME	MS
31	Automated Ring Assembly Machine	Nightforce Optics	ME	MS
7	Development of Low-Cost Process to Create EMI Shield	SEL	ME	MR
<b>Group G (ME) – 5 booths</b>				
A	Snowmobile Tow-Behind Analysis Trailer	UI CSC	ME	KK
B	Hot Cell Window Cleaning	Idaho National Lab.	ME	MS
C	Vertically Opening Forklift Cab Door Window	Hyster-Yale	ME	MS
D	A Burning Problem - Wildfire Smoke Generator	UI CNR	ME	MR
E	Ember Generator for Forest Fire Simulation	UI CNR	ME	MR
<b>Group H (ME) – 4 booths</b>				
25	Steam Plant/Fisheries Wastewater Recapture	McKinstry	ME	PY
13	Controlled Velocity Projectile Acceleration Using Compr. Air	Vista Outdoor	ME	MM
51	Skin Friction Rivet Analysis Using Oil Film Interferometry	Kodiak Aircraft	ME	PY
23	No Maintenance Bushing	Hyster-Yale	ME	MS

**Booth Map (inside ICCU Arena)**

East



West

## Outdoor Booths

Outdoor Booths will be located on the NW corner of the arena (near main entrance).

