Message from the Director

Greetings from Stillwater! It has been a long, strange trip since our last newsletter. Campus is slowly returning to some sense of normalcy as vaccinations ramp up throughout campus and the state of Oklahoma. Our offices are fully vaccinated and we are greatly appreciative of the OSU initiatives to vaccinate our community. Thank you President Hargis for your leadership sir!

Our research continues on the Saline Creek Stream Restoration Project with the Cherokee Nation. We continue to monitor water quality, fish populations, macroinvertebrates, and riparian area health. Thank you Meghan Martin for all of your hard work on that project. Molly Turner and Hailey Seago continue their efforts working with the City of Stillwater on designing and implementing a city-wide water quality monitoring program, stream channel characterization, and storm sewer assessments. We are happy to announce that Ryan Kroeger has joined the program and he will be working on our Yellow floating project on Lake Carl Blackwell. He will also be taking over monitoring water quality at Lake McMurtry.

This summer we will be starting a couple of new projects. The first will entail working with the Oklahoma Water Resources Board to monitor harmful algal blooms (HABs) detected by multispectral satellite imagery. Our rapid response team will be traveling the state of Oklahoma as needed in order to help our state better understand HABs and the toxicity associated with varying outbreaks. Additionally, we will be starting a new project with the Oklahoma Conservation Commission this summer. We will be analyzing the impact that agricultural best management practices have on carbon sequestration. This research is being privately funded by a gracious donation from Dr. Terry Hall of Oklahoma City. Thank you Terry!

Before I forget, we are so happy to announce that we have a new ESGP Program Coordinator: Kavina Eksteen, M.S. Environmental Science Graduate Program, Class of 2020! We are blessed to have such a wonderful graduate of our program taking over in this roll. She has hit the ground running and is also teaching Environmental Sampling & Analysis in the Environmental Science Undergraduate Program. Kavina completed the Lake Hudson Watershed-based Plan for the Grand River Dam Authority.

Happy Spring to All!

Regards,

Scott
OSU-TULSA

Professional Science Master’s in Environmental Management

Director’s Message

The Oklahoma State Regents have approved Oklahoma State University’s request to offer the Graduate Certificate in Environmental Science with Regulatory Certifications via traditional and electronic delivery.

This is another “1st” for OSU-Tulsa ESGP!

In addition, only OSU-Tulsa offers the PSM-MS degree in Environmental Science. The Professional Science Master’s Degree Program differs from other ESGP degrees by providing students a springboard to industry-specific job opportunities.

When completed, you will have the following degree and certifications:
• Master of Science (MS) in Environmental Science from Oklahoma State University
• Professional Science Master’s accreditation (PSM)

In addition, if you complete the following courses you will receive the following Federal certificates:

ENVR 5583: Safety Aspects for Environmental Managers
• OSHA 30-Hour General Industry course as per 29 CFR 1910

ENVR 5573: Applied Standards for Environmental Managers
• Department of Transportation (DOT) training requirements as per 49 CFR, Part 172, Subpart H, and
• EPA RCRA’s Hazardous Waste training requirements as 40 CFR 262.34(a) & 265.16

ENVR 5593: OSHA 40 HR HAZWOPER
• OSHA’s 40-hour HAZWOPER requirements as per 29 CFR 1910.120

OSU-Tulsa is the only university in the State of Oklahoma which offers all of the above listed courses for graduate credit!

In addition, OSU-Tulsa coursework includes Clean Air Act, Clean Water Act, Sustainability, ISO 14001, GIS Applications, Hydrogeology, Bioremediation, Site Investigation, Site Assessment & Remediation, Environmental Chemistry, etc.

If you plan on working in industry, consulting or with any regulatory agency (such as USEPA, ODEQ, Tribal Nations, etc.), this is your program!

OSU-TULSA

Courses offered

SUMMER 2021

ENVR 5200 CRN 41835 & 43587
Wilderness and the American Mind
• Full Day Sessions-Buffalo River (July 24-27)
• Synchronous Zoom Sessions (July 6/13/20/23) 7:20-10:00PM

ENVR 5593 CRN 43465
Hazardous Waste Operations and Emergency Response: HAZWOPER
• May 17-21
• 40-Hour Training

ENVR 5613 CRN 43614
Introduction to Environmental Toxicology & Industrial Hygiene
• Wednesdays 4:30–7:10 PM
• Choose either traditional or remote learning

ENVR 5753 CRN 43637
Environmental Site Remediation
• Mondays and Tuesdays 5:30–8:10 PM

ENVR 5823 CRN 43257
Watershed Management
• Thursdays 4:30–7:10 PM
• Choose either traditional or remote learning

ADMISSIONS

Welcome!

NEW ADMITS FOR 2021

We welcome these students who were admitted to ESGP degree programs in spring and summer 2021:

Daniel Al-Khour, PSM
Piotr Baidas, PSM
Frederick Baker, PSM
Christopher Bolton, PSM
Brianna Cox, PSM
Isaac Elliott, PSM
Yaema Fornah, MS
Torsha Goswami, PhD
Kelly Hendrix, MS
Kaitlyn Joy, MS
Ryan Kroeger, MS
Sheldon Mack, PSM
Steve Magnuni, PhD
Lauren Meyer, PSM
Anjuli Mulmi, MS
Shannon Wilson, PSM


**CURRENT RESEARCH**

**Meghan Martin, PhD**

Meghan’s research is in Mayes County, Northeastern Oklahoma, looking at the most detrimental form of sand and gravel mining, referred to as riverine mining. Her study implements three realms of the Environmental Sciences to determine the change riverine mining has on a small stream reach, known as Saline Creek. Her research first investigates how the mine has impacted the stream’s health, combining water quality analysis with biological collections (fish and macroinvertebrate). Second, she is trying to detect any change in the fluvial-geomorphological profile of the stream through time (two to three decades) by observing aerial and satellite imagery. Finally, she hopes to determine if a ban, restriction, or recycling of other aggregates would be feasible. To do this, she hopes to analyze the economic impact of sand and gravel mining directly while incorporating negative externalities to provide the true price of mining.

**RECENT GRADS**

**Congratulations, Graduates!**

**SPRING 2020 - SPRING 2021**

Join us in congratulating these students for completing their degrees:

<table>
<thead>
<tr>
<th>Spring &amp; Summer 2020</th>
<th>Spring 2021</th>
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<tbody>
<tr>
<td>Caleb Biles, MS</td>
<td>Hayley Cooney, PSM</td>
</tr>
<tr>
<td>Stephen Cochran, PSM</td>
<td>Daryl Hatch, PSM</td>
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<tr>
<td>Kavina Eksteen, MS</td>
<td>Scott Petty, PSM</td>
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<tr>
<td>Jacob Mahmood, PSM</td>
<td>Charles Nadal, PSM</td>
</tr>
<tr>
<td>Abigail McCrea, MS</td>
<td>Samantha Rosado, PSM</td>
</tr>
<tr>
<td>Benjamin Lamb, MS</td>
<td>Erin Tubolino, PSM</td>
</tr>
<tr>
<td>Martin Wind, PSM</td>
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All OSU class of 2020 graduates are invited to participate in spring commencement ceremonies in Boone Pickens Stadium May 7-8 as capacity allows. Please visit commencement.okstate.edu and OSU-Tulsa Commencement for more information.

**ALUMNUS SPOTLIGHT**

**Natarianto Indrawan, PhD**

Natarianto Indrawan completed his PhD degree in Environmental Science at Oklahoma State University in December, 2018. His thesis focused on Advanced Biopower Generation via Gasification of Biomass and Municipal Solid Waste. During his PhD, he published more than six original research papers as the first author. He also published a book chapter. Currently, more than 11 publications of his scholar record reference his PhD thesis. Prior to his graduation, Dr. Indrawan had been involved in conducting research in the U.S. Department of Energy (DoE), the Office of Fossil Energy, National Energy Technology Laboratory (NETL), The Oak Ridge Institute for Science and Education (ORISE) supported his postdoctoral research from March to July 2019. In August 2019, he was recruited as Leidos Research Support Team (LRST) to support research within the DoE, the National Energy Technology Laboratory (NETL), hybrid power system, gasification, and hydrogen production. In the summer, Dr. Indrawan is one of the mentors for The Mickey Leland Energy Fellowship (MLEF) program. This program is sponsored by the U.S. DoE, Office of Fossil Energy. The main focus is to assist undergraduate, graduate students, and faculty members, who conduct summer internships at NETL.
ALUMNUS SPOTLIGHT

Lexi Freeman, MS

Lexi Freeman graduated from the Environmental Science Graduate Program nearly 3 years ago, in 2018 with her Master’s Degree. Her goal “to return to tribal nations and help with the implementation and regulation of environmentally friendly practices”, has been realized. She is now the Environmental Coordinator for the Citizen Potawatomi Nation. Lexi is really enjoying the work, and is responsible for NEPA reviews, environmental regulations/compliance, and water monitoring. She also manages the EPA grants (CWA 106, CWA 319, and GAP). Lexi is the Secretary of the Tribe’s AISES chapter and she is having fun teaching Native students (virtually) about entomology and the environment.

Photo Credit: potawatomi.org

UPCOMING EVENTS

IMPORTANT DATES

May 14, 2021
Abstract submission deadline

September 3, 2021
Presenter registration deadline

September 24, 2021
Early bird registration deadline

October 22, 2021
Hotel room block closes

November 5, 2021
Regular registration deadline

Share your alumnus news with us and we will add it to our next newsletter. Submit your item to esgp@okstate.edu.