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University  
of Regina

Faculty of Engineering  
and Applied Science

*is proud to present:*

## PROJECT DAY 2017

This conference-style event includes concurrent sessions where 4th-year Engineering students present their final-year design projects and also a Trade Show and Poster Session where projects will be on display.

**Saturday, April 8, 2017**  
**8:30 am - 4:15 pm**  
**Main Floor, Education Building**  
**University of Regina**

Please see page 2 for the schedule.

Admission is Free  
& the Public is Welcome!



	ED 106	ED 106.1	ED 106.2	ED 191	ED 193	CK 185	CK 187
8:30		<b>PSE 4</b> Optimization of Flue Gases-Assisted SAGD Performance in A Heavy Oil Reservoir	<b>PSE 7</b> Caprock Integrity Analysis During A Typical SAGD Operation	<b>ISE 7</b> Alternatives For Supplying Electrical Power to RCMP Regina	<b>ISE 21</b> Agriculture Wear Testing Unit for Dutch Openers	<b>EVSE 2</b> Effluent Discharge Objectives for Very Small Wastewater Treatment Systems	<b>EVSE 8</b> Green Roof Design for Water Management in Regina
9:00	<b>ESE 1</b> Programmable Live Audio Controller (PLAC)	<b>PSE 12</b> Optimization Of EOR Performance In A Post-Chops Reservoir With Consideration Of Foamy Oil Flow	<b>PSE 6</b> Expanding the Applications of PCP Artificial Lift to Light Oil Reserves in Western Canada	<b>ISE 4</b> Ash Water Pressure Control System	<b>ISE 13</b> Metering System for Testing Flow of Grain through Seeding Tools	<b>EVSE 14</b> Pilot Butte Creek Weir Redesign	<b>EVSE 4</b> Simulation of free surface flows by using MPS method
9:30	<b>ESE 4</b> Volt Bike	<b>PSE 19</b> Parametric Optimization of An ESP System in a South SK Reservoir	<b>PSE 17</b> Performance Evaluation of Solvent Vapour Extraction Process with Multilateral Wells	<b>ISE 5</b> Absorber design and Analysis for CO <sub>2</sub> capture	<b>ISE 9</b> Soil Openers Life Extension	<b>EVSE 7</b> ESOCs in North & South Saskatchewan Rivers	<b>EVSE 15</b> Flood Mitigation Design for Quill Lakes
10:20	<b>SSE 1</b> Pages & Polearms	<b>PSE 15</b> Numerical Evaluation for ASP Flooding Performance in a Southwest SK Reservoir	<b>PSE 1</b> Effect of Grain Size Distribution on Permeability Variation Due to Fines Migration		<b>ISE 10</b> Impact Performance: Design & Analysis of Sporting Equipment	<b>EVSE 5</b> Evaluation of Accelerated One-Dimensional Consolidation Testing of Soils	<b>EVSE 13</b> Determining Feasibility of Small Scale Methane Bioreactors
10:50	<b>SSE 2</b> Scheduler & Management App	<b>PSE 3</b> Minimum Formation Thickness for Sustaining In-Situ Combustion in a Lloydminster-Type Reservoir	<b>PSE 13</b> Optimizing Production Rate of High Water Cut Heavy Oil Wells	<b>ISE 6</b> Ergonomics Design of Dual Screen Workstations at U of R	<b>ISE 11</b> Automated Gym Spotter System	<b>EVSE 11</b> Green house Emission Modeling for the City of Regina	<b>EVSE 6</b> Design of a Railway Grade Crossing Inspection Application Using Smart Client
11:20	<b>SSE 3</b> MLB LinePro for DraftKings	<b>PSE 2</b> Optimal Solvent-Steam Ratio For an ES-SAGD Field Scenario	<b>PSE 16</b> Optimal Load Water Recovery Strategies in the Northern Montney	<b>ISE 19</b> Wind Energy Facility for U of R	<b>ISE 20</b> Rapid Attachment Interchange System for Forklifts	<b>EVSE 17</b> Development of an Optimal Electrocoagulation Method for the Remediation of Produced Water	<b>EVSE 12</b> Design of an Alternate Truck Route for Moosomin
1:00	<b>SSE 4</b> Video Enabled Eyeglass Lens Blocker		<b>PSE 8</b> Physical Model Experiments for Viscous Fingering Patterns Using Polymer and Surfactant Flooding	<b>ISE 1</b> Design Optimization of Oil Distribution Process	<b>ISE 18</b> Combination High Chair and Stroller	<b>ESE 3</b> Batco Conveyor Monitoring System	<b>EVSE 10</b> Radon Monitoring and Mitigation
1:30	<b>SSE 5</b> GenesisNPC	<b>PSE 9</b> Combined CSI and CGI In the Post-CHOPS Reservoirs	<b>PSE 18</b> Simulation Study on Minimum Miscibility Pressure of CO <sub>2</sub> /Solvent Injection for Enhanced Oil Recovery	<b>ISE 12</b> Warehouse Inventory Optimization	<b>ISE 8</b> Tube Forming and Flaring Machine	<b>ESE 2</b> Wireless Distress Monitoring Network	<b>EVSE 16</b> Energy Harvesting Application for Fitness Facilities
2:00	<b>SSE 6</b> Prometheus	<b>PSE 11</b> Post Chops Heavy Oil Recovery Utilizing Cyclic Steam Stimulation With & Without Solvents		<b>ISE 3</b> U of R Deep Geothermal Energy Project	<b>ISE 16</b> Van Door Closing System	<b>ESE 5</b> Low Cost Differential Protection System	<b>EVSE 3</b> Nutrient Loading into the Qu'Appelle Watershed
2:50	<b>SSE 7</b> Tender	<b>PSE 14</b> SAGD Optimization with Bottom Water in Lashburn		<b>ISE 2</b> Abandoned Pipelines as Anodes in Cathodic Protection System	<b>ISE 14</b> 2017 Baja Vehicle		<b>EVSE 1</b> A Wastewater Lagoon Upgrade for Regina Beach
3:20	<b>SSE 8</b> marble.ca	<b>PSE 5</b> Greenfield Development Strategy for an Oil Sands Project Using SAGD		<b>ISE 17</b> Environmental & Economic Viability Study for Waste-Oil-Into-Diesel Process	<b>ISE 15</b> Superstructure Design and Fabrication for GNCTR 2017		<b>EVSE 9</b> Rainwater Collection and Treatment for Irrigation Use at U of R
3:50	<b>SSE 9</b> Direct Download	<b>PSE 10</b> Intelligent Electrical Submersible Pump Dumpflood					