



Hatch Plant Design Competition Winners

Hatch Plant Design Competition

2016

First Place: Moshtagh Aljawahari, John Anawati, Josée Malette and Prashanth Srinivasan, University of Ottawa, “Design of a Chemical Plant for Production of n-butanal from propane by oxidative dehydrogenation and hydroformylation”

Second Place: Bryanna Borys, Jared Collette, Therese van der Hoorn and Waheed Zaman, University of Calgary “Re-use of Carbon Dioxide Emissions as an Industrial Feedstock”.

Third Place: Étienne Cameron, Gabrielle Dagenais, Jade Daigle-Sam Yeng, Wilson Kao and Francis Marquis, École Polytechnique, “Recyclage chimique de Polymère”.

Fourth place: Garrett Bangsboll, Caroline Giacomini, Evan Veryard and Jingyuan Zhang, McGill University, “Continuous Ethoxylation Project”.

SNC-Lavalin Plant Design Competition

2015

First Place: Natasha Bieniek, Christopher Lock, Ryan Gerlach, Terry Milton, Kayte Sutherland, Lakehead University, “Converting Plastics Waste to Straight Run Petroleum Products”.

Second Place: Mathan Goldstein, Anand Natu, Chantelyn Pineda and Praneet Akilla, McGill University, “Carbon Capture Facility Design”.

Third Place: Nguyen Pham, Sergiy Rudy and Rana Rahmani, Ryerson University, “Design of a Bioenergy System (100kw) From Hog Waste and Grass Silage”.

2014

First Place: Nathan Blundon, Eric Czaczkowski, Travis Roske and Matthew Smith, Lakehead University, “Hydrogen Production by Sorption-Enhanced Steam-Methane Reforming”.

Second Place: Ryan Bekeris, Matthew Hudder, Robert Tyssen, University of Ottawa, “Benzyl Chloride Manufacturing Facility”.

Third Place: Nabeel Jadavji, Jelani Baptiste, Diana Jula and Evangeline Philos, University of Waterloo, “Combined-Cycle Natural Gas Power Plant with Opportunities to Reduce Environmental Impact”.

2013

First Place: Jeremy Hughes, Bruce Scott, Erin Flanagan and Cody Brown, University of New Brunswick, “The Use of Solid Catalyst Technology in the Alkylation of Refinery Grade Propylene”.

Second Place: Richard Cezar, Caroline Belzile, Jean-Raphael Boudreault, Geneviève Lecroix, Guillaume Poulin, Université de Sherbrooke, “Ingénierie préliminaire d’un procédé de récupération du phosphate tricalcique présent dans les eaux usées”.

Third Place: Seyed Nourbakhsh, Mohammad Meshkaldini, Amirsalar Yaraghi, Pantea Pourhekmat, Jad Madi, Ryerson University, “Adipic Acid Plant Production Design”.

2012

First Place: Pierre-Olivier Corcos, Marc-Antoine Lauzon, Philippe Marcotte, Samuel Mercier, François Pelletier-Bouchard, Université de Sherbrooke, Biotechnologie, “Projet sur la biométhanisation des drêches de brasserie”

Second Place: Wendy Cheng, Kelsey Gerbrandt, Yvonne Hsieh, Heather Kempthorne, Paul Kim and Cherie Tan, University of British Columbia, “Design of a Carbonated Yogurt Beverage”

Production Plant in Canada “.

Third Place: Dustin MacDonald, Mike MacMillan, Nicholas Marchand, Dalhousie University, “Ethanol Production From Sugarbeets Utilizing Energy Saving Distillation Technologies “.

2011

First Place: Sophie Belley, Alexandre Martin-Dubreuil, Louis-Philippe Préfontaine-Dastous, Véronique Normand, Marie-Pier Tétreault, Université de Sherbrooke, “Conception d’une usine de production efficiente de bière”

Second Place: Gabriel Manuge, Wei Sang, and Sean Sobey, Dalhousie University, “Production of Ethylene Glycol and Ethylene Oxide”

2010

First Place: Dominic Bellemare-St-Louis, Lee Bourgoïn, Jonathan Deschamps, Marie-Suzanne Gignac, Nicolas Lafleur, **Université de Sherbrooke**, “Production contrôlée et efficace de vaccins contre la grippe basée sur une technologie de culture cellulaire”

Second Place: Rimaz Abakar, Tariq Amir, Salim Fettaka, Matthew Galarneau, Nabil Hadj-Moussa, **University of Ottawa**, “HPV Chemical Plant Design Project Final Report Hydrazine Production in Sarnia, Ontario”

Third Place: Caryn Liberman, Bikram Sandhu, Michael Chu, Pierce Kim, Ronald Tse, **University of British Columbia**, “Utilization of Hydrogen from Vancouver Landfill Gas”.

2009 (International SNC-Lavalin Plant Design Competition held at the 8th World Chemical Engineering Conference)

First Place: Aleisha McCabe, Grant McCool, Derek Sumner, **Oklahoma State University, USA**, “Manufacture of Polylactic Acid — Biodegradable Plastic from Renewable Sources”.

Second Place: Tarrant Faloke, Blake Stewart, Soma Bharatiya, Curtis Landon, Reshma Pandher, Sachie Weilakala, **Monash University, Australia**, “Integrated Gasification Combined Cycle Power Station with Carbon Capture and Storage for Gladstone, Queensland”.

Third Place: Suanne Mahabir, Karen Lenkiewicz, Luke McIntyre, **University of Western Ontario, Canada**, “Manufacture of Polylactic Acid — Biodegradable Plastic from Renewable Sources”.

2008

First Place: Suanne Mahabir, Karen Lenkiewicz, Luke McIntyre, **University of Western Ontario**, “Manufacture of Polylactic Acid — Biodegradable Plastic from Renewable” Sources.

Second Place: Allyse Kreiser, Kevin Mamer and Kevin Sundquist, **University of Saskatchewan** “Low-Temperature Crystallization Unit for Sulphate and Perchlorate Removal from a Closed System Sodium Chlorate Plant”.

Third Place: Justin Bourret, Marie-Claude Cassista, Mélissa Gaucher, Julie Poudrier and Évelyne Smaers, **Université de Sherbrooke**, “Production de bactéries pour des fins de traitement des eaux usées”.

2007

First Place: Audrey Bernard, Dominic St-Onge, Pierre-Luc Gagnon, Louis-Ghislain Roy, Emanuelle Plante, **Université de Sherbrooke**, “Usine de pâte kraft”.

Second Place: Stephanie Dadidovsky, Rami Issa, Jean-Michel Lavoie, Antonina Tosia Lapata, **McGill University**, “Nickel Nanopowder Production via Chemical Precipitation”.

Third Place: Mark Berscheld, Melissa Bromstar, Rihanna Vanin, **University of Saskatchewan**, “Bio-Diesel Production at the Lloyminster Upgrader”.

2006

First Place: Jesse Berton, Karyn Ho, Karen Lau, Michael Lee, Elton Lu, Jimmy Sunaryo, Amberley Bailey-Romanko, Shaun Lamoureux, Satya Nookala, Neil Sutherland, **University of British Columbia**, “Acid Mine Drainage Remediation Britannia Water Treatment Plant”.

Second Place: Sura Ali, Joelle Jureidini, Léonie Rouleau, **McGill University** “Fiberline Upgrade”.

Third Place: Richard Roda, Michael Beresford, Jeff MacDonald, **Dalhousie University**, “Liquid Phase Alkylation of Benzene with Ethylene”.

2005

First Place: Karyn Ho, Karen Lau, Elton Lu, Shaun Lamoureux, Jesse Berton, Jimmy Sumaryo, Michael Lee, Amberly Bailey-Romanko, Satya Nookala, Neil Sutherland, **University of British Columbia**, "Acid Mine Drainage Remediation Britannia Water Treatment Plant".

Second Place: Sua Ali, Joelle Jureidini, Léonie Rouleau, **McGill University**, "Fiberline Upgrade".

Third Place: Michael Beresford, Jeffrey MacDonald, Richard Roda, **Dalhousie University**, "Liquid Phase Alkylation of Benzene with Ethylene".

2004

First Place: Beatriz Myra Alvarade, Ethan DeFord, Rima Manneh, **McGill University**, "Atmospheric Hydrochloric Acid Leach of Nickel Laterite Ore".

Second Place: Karine Belanger, Nathalie Camire, Philippe Chouinard, Jean-Philippe de Serres, Nicole Desnoyers, Catherine Dubrueuil, Maxim Duchesne, Pierre-Luc Girard, Dragana Hann, Daniel Laflamme, Francois Laflamme, Odile Lamarche, Julie Tremblay, **Université de Sherbrooke**, "Rapport d'ingenierie preliminaire pour la production de biodiesel".

Third Place : Khaled Abdel-Gawad, Mustafa Al-Sabawi, Wailan Chen, Derek Daniher, **University of Western Ontario**, "Hydrocracking of Vacuum Gas Oil".

2003

First Place: Heidi Brochu, André LeBlanc, Pierre Belleau, **Université de Sherbrooke**, "Étude Préliminaire Usine H₂O₂".

Second Place: Nusrat Choudhury, Laura DeSimini, David Shaddick, **McGill University**, "El-Outaya Salt Purification Plant".

Third Place: Erin Egan, Sailaja Potaraju, Mohammed Sabha, Jonathan Stoltzfus, **McGill University**, "Lube Oil Re-Refining Plant".

2002

First Place: Amer Ebied, M. Ali Soleymannezhad and Landry Biles, **University of Western Ontario**, "Polyisobutylene-Polystyrene Block Co-polymerization by Batch Process".

Second Place: Allison Flinn, Joanna Premock and Krista Presseault, **University of Western Ontario**, "Production of Methanol from Heavy Oil Residues".

Third Place: Gaetan Gobeil and Karthik Selvam, **University of Saskatchewan**, "Fuel Ethanol Plant Design".

2001

First Place: Francis Chua, Aaron Grover, Yung Hoang and Milena Vujic, **University of Western Ontario**, "The Treatment of Spent Pickling Liquor".

Second Place: Mike Burgoyne, Brenda Yun Chen, Ryan Davies, Heather Dobson, Ben Goodier, Christian Hluchy, Genevieve Kenny, Mark Lee, Maninder Mangat, Edward Muliawan, Trevor Roberts, Manpreet Sidhu, Nathaniel Stoffelsma and Marnie Williston, **University of British Columbia**, "Design of a World-Scale Aniline Plant".

Third Place: Tim Barnstable, Cameron Brown and Ryan Spelay, **University of Saskatchewan**, "Retrofit of PCS Allan Mine Flotation Circuit".

2000

First Place: Ali Al Saleem and James Kokonas, **University of Saskatchewan**, "Installation of a Turboexpander for Power Recovery from a Natural Gas Letdown Station".

Other Finalists: McGill University and Dalhousie University

1999

Finalists: Dalhousie University (2 teams) and McGill University

1998

First Place: Alyssa Park, Jason Tchong, **University of British Columbia**

Other Finalists: University of Western Ontario and McGill University (2 teams)

1997

Finalists: Université de Sherbrooke, École Polytechnique and Technical University of Nova Scotia

1996

Not available

1995

Not available

1994

Not available

1993

First Place: Randy Miller, David Scott, Nancy Irwin, Shaffiq Jaffer, **University of Alberta**, “Chlor-Alkali Production Using a Membrane Process”.

Other Finalists: Queen’s University and University of Saskatchewan

1992

Finalists: McGill University (2 teams) and University of Saskatchewan (2 teams)

1991

First Place: Kelly Knorr and Kevin Dorma, **University of Saskatchewan**, “Ethylene Plant”.

Other Finalists: McGill University and University of Saskatchewan

SNC Plant Design Competition

1990

First Place: M. Al-Jah, K. Farahbaksh and T. Moser, **Technical University of Nova Scotia**, “Feasibility Study for the Development of an Ethylene and Propylene Plant in Nova Scotia”.

Other Finalists: McGill University and University of Calgary

1989

First Place: Yvette Bayers

1988

First Place: Paul Brown, Pak Kai Yuet and Lisa Chan, **Technical University of Nova Scotia** “Preliminary Study for the Production of Propylene and Ethylene in Nova Scotia”.

Other Finalists: University of New Brunswick and University of Toronto

SNC FW Plant Design Competition

1987

First Place: Ian Douglas, University of **Western Ontario** “The POXM (Partial Oxidation of Methane)”.

Other Finalists: **University of Alberta and University of Toronto**

CSCHE Plant Design Competition

1986 (this was a written competition only, posters were introduced in 1987)

First Place: John Garofalo, Carmine Fontana, Julia Lewis, Giancarlo Sansalone, Sherman Wu, Tacoma Zach, **University of Toronto**, “Feasibility/Design Student of a Heavy Oil Upgrader”.

No runner-ups named