

**Bob Hanlon**

Station Director at MIT School of Chemical Engineering Practice  
Chemicals

<http://www.directoryinventor.com/profile/view/wQ18RQZS>

**Experience**

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**Station Director, MIT Chemical Engineering Practice School**

MIT  
10,001+ employees; Educational Institution; Higher Education  
January 2010 - Present

Director of MIT's Chemical Engineering Practice School Stations BP, Hull, England, Nov-Dec '12  
Corning, Inc., New York, Aug-Sept '12 General Mills, Minneapolis, Apr-May '12 Corning, Inc., New  
York, Oct-Dec '11 SGC Energia, Austria, Apr-May '11 Vale Energy Solutions (VSE), Brazil, Aug-Oct  
'10 Mawana Sugar Works, India, Jan-Mar '10

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**Principal**

Independent Consultant  
Chemicals  
January 2010 - Present

Reaction engineering Heterogeneous catalysis Fischer-Tropsch synthesis Mass Customization  
Chemical process research, development and commercialization

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**Distinguished Engineer**

Dow Electronic Materials  
10,001+ employees; Public Company; Chemicals  
April 2009 - February 2010

Formerly the Rohm and Haas Company Biodiesel process technology Heterogeneous catalysis using  
ion exchange resins Lead engineer responsible for providing technical support to global Sales team  
for newly commercialized biodiesel catalyst.

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**Distinguished Engineer**

Rohm and Haas / England  
Public Company; Chemicals  
2000 - April 2009

Biodiesel process technology Heterogeneous catalysis Mass Customization Building and  
Construction Biodiesel process technology. Coordinated development of process concepts,  
fundamental kinetic modeling, pilot unit efforts (Project Manager), and process economics. Direct  
interface with customers handling process questions. Mass Customization. Developed first analysis of  
Mass Customization Business Model for the Rohm and Haas Company. Extensive assessment of

external best practices, internal opportunities, and technology requirements to enable those opportunities. Building and Construction. Leader of grass-roots effort that educated B&C Marketers and Scientists on the end-user decision-making process involved in the B&C Industry. Enrolled others in the vision of this network as means to drive market-pull innovation and secured their commitments to contribute. Program involved coordinating interviews with and presentations by architects, owners, and builders.

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## Senior Associate, Process R&D

### Mobil Oil

Public Company; Oil & Energy  
1987 - 2000

Reactor engineering R&D Lube hydroprocessing Heterogeneous Catalysis Lead technical support engineer to Singapore lube refinery. Collaborated with refinery engineers and operations personnel to design and implement process models, new product routes, and new work procedures. Singapore All-Catalytic Lubes Plant commercialization. Designed and supervised supportive lube high-pressure hydrocracking pilot unit work. Quantified and interpreted economic sensitivity of project to technology options. Coordinated design collaboration with Mobil Engineering. Team member for successful 3-month start-up of complex. Led development of proprietary isomerization-dewaxing technology. Designed and executed supportive pilot unit programs. Created model of reaction network. Coordinated design collaboration with Mobil Engineering.

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## Education

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### Universitt Karlsruhe (TH)

Reaction Engineering  
1985 - 1986

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### Massachusetts Institute of Technology

Chemical Engineering - Reactor Engineering  
1981 - 1985

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### Bucknell University

Chemical Engineering  
1977 - 1981

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### Fayetteville-Manlius High School

1974 - 1977

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## Patents (6)

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### Method for esterification of free fatty acids in triglycerides

Rajiv Manohar Banavali, Robert Tryon Hanlon, Alfred Karl Schultz  
May 13, 2010: 20100121087-A1

## **Process for heterogeneously catalysed esterification of fatty acids**

Wulf Dietrich, Dieter Heinz, Leslaw Mleczko, Shaibal Roy, Heinrich Morhenn, Robert Tryon Hanlon  
December 3, 2009: 20090294358-A1

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## **Method for esterification of fatty acids in glyceryl esters in a tubular reactor**

Rajiv Manohar Banavali, Robert Tryon Hanlon, Aaron Sarafinas, Alfred Karl Schultz, Cheryl Irene Teich, Jose Antonio Trejo  
November 5, 2009: 20090275769-A1

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## **Method for purification of oils for biodiesel processes**

Rajiv Manohar Banavali, Robert Tryon Hanlon, Alfred Karl Schultz, Jose Antonio Trejo  
June 18, 2009: 20090156847-A1

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## **Method for purification of glycerol from biodiesel production (2 worldwide citation)**

Rajiv Manohar Banavali, Robert Tryon Hanlon, Alfred Karl Schultz  
May 19, 2009: 07534923

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## **Method for purification of glycerol from biodiesel production**

Rajiv Manohar Banavali, Robert Tryon Hanlon, Alfred Karl Schultz  
February 19, 2009: 20090048472-A1

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[View all \(6\)](#)