

MEMORANDUM

Department of Chemical Engineering
Michigan Technological University

TO: BioUO Lab Team Cycle 2, Week 1 L-lysine Production in a Bioreactor
Experiment starts Tue, Feb. 9, 2004 in room 205 (CSEB)

FROM: David R. Shonnard
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DATE: 22 March, 2004

SUBJECT: L-Lysine Fermentation Objectives

Introduction

Fermentation involves the growth of microorganisms in various bioreactor configurations for the purpose of obtaining some product. The product may be a biomolecule (protein, enzyme, amino acid, etc.) or the cells themselves. The growth characteristics of the microorganisms as they metabolize the carbon source is a very important aspect of the process. In this experiment, you will grow an auxotrophic (the cell lacks the ability to biosynthesize one or more key amino acids required for protein / enzyme production and growth) mutant strain of the bacterium, *Corynebacterium glutamicum*, on a six carbon sugar (glucose), using an automated bioreactor operated in batch mode over a 2-3-day period. You will monitor for the change in concentration of the cells, glucose, and L-lysine in the culture over time. The task of the Tuesday group will be to set up and run the experiment. Both groups will take samples periodically over the run. The Thursday group tasks will analyze the samples for glucose and lysine and shut down the experiment and clean up. One report will be submitted by the Team.

Objectives

You are to;

1. Conduct a batch growth experiment of this bacterium utilizing the carbon substrate glucose in a defined growth medium over a 2-3-day period. Culture the bacteria under the following set of conditions: 30 °C, pH = 7.0, dissolved oxygen at a setpoint of 50% of saturation value (in contact

Memorandum Of Engineering Science 30 July 2014

Timothy P. Schultz



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The Problem with Pilots Timothy P. Schultz, 2018-03-15 An illuminating look at how human vulnerability led to advances in aviation technology As aircraft flew higher faster and farther in the early days of flight pilots were exposed as vulnerable inefficient and dangerous They asphyxiated or got the bends at high altitudes they fainted during high G maneuvers they spiraled to the ground after encountering clouds or fog Their capacity to commit fatal errors seemed boundless *The Problem with Pilots* tells the story of how in the years between the world wars physicians and engineers sought new ways to address these difficulties and bridge the widening gap between human and machine performance A former Air Force pilot Timothy P Schultz delves into archival sources to understand the evolution of the pilot aircraft relationship As aviation technology evolved and enthusiasts looked for ways to advance its military uses pilots ceded hands on control to sophisticated instrument based control By the early 1940s pilots were sometimes evicted from aircraft in order to expand the potential of airpower a phenomenon much more common in today's era of high tech and often unmanned aircraft Connecting historical developments to modern flight this study provides an original view of how scientists and engineers brought together technological medical and human elements to transform the pilot's role *The Problem with Pilots* does away with the illusion of pilot supremacy and yields new insights into our ever changing relationship with intelligent machines

The Central Intelligence Agency and Overhead Reconnaissance Gregory Pedlow, Donald Welzenbach, 2016-03-15 The CIA's 2013 release of its book *The Central Intelligence Agency and Overhead Reconnaissance 1954-1974* is a fascinating and important historical document It contains a significant amount of newly declassified material with respect to the U 2 and Oxcart programs including names of pilots codenames and cryptonyms locations funding and cover arrangements electronic countermeasures equipment cooperation with foreign governments and overflights of the Soviet Union Cuba China and other countries Originally published with a Secret No Foreign Dissemination classification this detailed study describes not only the program's technological and bureaucratic aspects but also its political and international context including the difficult choices faced by President Eisenhower in authorizing overflights of the Soviet Union and the controversy surrounding the shoot down there of U 2 pilot Francis Gary Powers in 1960 The authors discuss the origins of the U 2 its top secret testing its specially designed high altitude cameras and complex life support systems and even the possible use of poison capsules by its pilots if captured They call attention to the crucial importance of the U 2 in the gathering of strategic and tactical intelligence as well as the controversies that the program unleashed Finally they discuss the CIA's development of a successor to the U 2 the Oxcart which became the world's most technologically advanced aircraft For the first time the more complete 2013 release of this historical text is available in a professionally typeset format supplemented with higher quality photographs that will bring alive these incredible aircraft and the story of their development and use by the CIA This edition also includes a new preface by author Gregory W Pedlow and a foreword by Chris Pocock Skyhorse Publishing as well as our

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Topical Issues of Rational Use of Natural Resources Vladimir Litvinenko, 2018-10-16 Topical Issues of Rational Use of Natural Resources contains the contributions presented at International Forum Contest of Young Researchers 2018 St Petersburg Mining University Russia 18-20 April 2018 The Forum Contest is an excellent opportunity for young researchers to present their work to the scientific community involved in the extraction and processing of natural resources The topics of the book include Prospecting and exploration of mineral deposits Development of solid minerals deposits and safety of mining operations Development of oil and gas fields and transportation of crude hydrocarbons Modern technologies of construction work applied in the mineral complex Metallurgy Physical and chemical technologies of hydrocarbons treatment Equipment transport service and energy efficiency of mining enterprises Economic tools of innovative development Environmental protection Geo information systems and nanotechnologies Topical Issues of Rational Use of Natural Resources collects the best reports presented at the Forum Contest and will be of interest to academics and professionals involved in the extraction and processing of natural resources

Gender and Climate Change Joane Nagel, 2015-09-25 Does gender matter in global climate change This timely and provocative book takes readers on a guided tour of basic climate science then holds up a gender lens to find out what has been overlooked in popular discussion research and policy debates We see that around the world more women than men die in climate related natural disasters the history of science and war are intimately interwoven masculine occupations and preoccupations and conservative men and their interests drive the climate change denial machine We also see that climate policymakers who embrace big science approaches and solutions to climate change are predominantly male with an ideology of perpetual economic growth and an agenda that marginalizes the interests of women and developing economies The book uses vivid case studies to highlight the sometimes surprising differential gendered impacts of climate changes

Using Graywater and Stormwater to Enhance Local Water Supplies National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Water Science and Technology Board, Committee on the Beneficial Use of Graywater and Stormwater: An Assessment of Risks, Costs, and Benefits, 2016-06-30 Chronic and episodic water shortages are becoming common in many regions of the United States and population growth in water scarce regions further compounds the challenges Increasingly alternative water sources such as graywater untreated wastewater that does not include water from the toilet but generally includes water from bathroom sinks showers bathtubs clothes washers and laundry sinks and stormwater water from rainfall or snow that can be measured downstream in a pipe culvert or stream shortly after the

precipitation event are being viewed as resources to supplement scarce water supplies rather than as waste to be discharged as rapidly as possible. Graywater and stormwater can serve a range of non-potable uses including irrigation, toilet flushing, washing, and cooling, although treatment may be needed. Stormwater may also be used to recharge groundwater, which may ultimately be tapped for potable use. In addition to providing additional sources of local water supply, harvesting stormwater has many potential benefits, including energy savings, pollution prevention, and reducing the impacts of urban development on urban streams. Similarly, the reuse of graywater can enhance water supply reliability and extend the capacity of existing wastewater systems in growing cities. Despite the benefits of using local alternative water sources to address water demands, many questions remain that have limited the broader application of graywater and stormwater capture and use. In particular, limited information is available on the costs, benefits, and risks of these projects, and beyond the simplest applications, many state and local public health agencies have not developed regulatory frameworks for full use of these local water resources. To address these issues, *Using Graywater and Stormwater to Enhance Local Water Supplies* analyzes the risks, costs, and benefits on various uses of graywater and stormwater. This report examines technical, economic, regulatory, and social issues associated with graywater and stormwater capture for a range of uses, including non-potable urban uses, irrigation, and groundwater recharge. *Using Graywater and Stormwater to Enhance Local Water Supplies* considers the quality and suitability of water for reuse, treatment and storage technologies, and human health and environmental risks of water reuse. The findings and recommendations of this report will be valuable for water managers, citizens of states under a current drought, and local and state health and environmental agencies.

Journal of the Senate of the United States of America United States. Congress. Senate, 1789

Science-based Management and Upland Community Development in the Philippines Portia G. Lapitan, 2018

Remediation of Buried Chemical Warfare Materiel National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Review of the Conduct of Operations for Remediation of Recovered Chemical Warfare Materiel from Burial Sites, 2012-09-21. As the result of disposal practices from the early to mid-twentieth century, approximately 250 sites in 40 states, the District of Columbia, and 3 territories are known or suspected to have buried chemical warfare materiel (CWM). Much of this CWM is likely to occur in the form of small finds that necessitate the continuation of the Army's capability to transport treatment systems to disposal locations for destruction. Of greatest concern for the future are sites in residential areas and large sites on legacy military installations. The Army mission regarding the remediation of recovered chemical warfare materiel (RCWM) is turning into a program much larger than the existing munition and hazardous substance cleanup programs. The Army asked the National Research Council (NRC) to examine this evolving mission in part because this change is significant and becoming even more prominent as the stockpile destruction is nearing completion. One focus in this report is the current and future status of the Non-Stockpile Chemical Material Project (NSCMP), which now plays a central role in the remediation of recovered chemical

warfare materiel and which reports to the Chemical Materials Agency Remediation of Buried Chemical Warfare Materiel also reviews current supporting technologies for cleanup of CWM sites and surveys organizations involved with remediation of suspected CWM disposal sites to determine current practices and coordination In this report potential deficiencies in operational areas based on the review of current supporting technologies for cleanup of CWM sites and develop options for targeted research and development efforts to mitigate potential problem areas are identified **Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)** Union of International Associations,2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events 2005-2020

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