

GATEWAY TO SCIENCE ETHANOL EXHIBIT

Status Report: Contract R-027-036

Provided July 18, 2017

For the period of April 1-June 30, 2017

Provided by the North Dakota Ethanol Council

Objectives

The objectives of this project are: 1) to increase the long-term use of ethanol in North Dakota by educating students, parents and educators in the region on the benefits of ethanol to the economy, environment and energy independence; and 2) to ensure the future of the ethanol industry workforce by engaging students, parents and educators in the lifecycle of ethanol production, specifically the scientific process of converting an agricultural product, which is a growing source of sustainable energy, into high-value co-products, including ethanol and distillers grains.

In addition to the North Dakota Ethanol Council (NDEC), partners in the program are Gateway to Science (GTS) and Science Museum of Minnesota (SMM), as well as ethanol industry stakeholders including: CTE Global Inc, Dupont, Gaviolon, Growth Energy, Lallemand and New Age Cryo.

The strategy that will be implemented to meet the objectives is the installation of a hands-on, interactive, ethanol-specific exhibit to be utilized as a pilot at the current facility and then permanently installed at the new GTS facility in Bismarck, ND, which is scheduled to open in 2018.

Strategy Progress

During this reporting period, 3,057 guests visited the gallery and interacted with the ethanol exhibit, including more than 35 field trips from across the state in May alone. The ethanol exhibit prototype has been partially disassembled for transport and shipment back to Science Museum of Minnesota (SMM) in Saint Paul (photos attached) where SMM will begin pilot exhibit fabrication. Once completed, the pilot exhibit will be installed at the current Gateway to Science (GTS) facility.

The North Dakota Ethanol Council provided GTS with corn and distillers grains samples to incorporate in the pilot exhibit—these samples have been sent on to SMM. Other planned changes for the pilot exhibit include: 1) fixing the augur to reduce jams, 2) adding lights to moving pieces to notify visitors when steps in the production process are completed, 3) updating the exhibit graphics and incorporating links to video content, 4) building a transparent cabinet that allows visitors to see the inner workings of the exhibit, and 5) adding a button at the end of the process to start the cars driving and cows eating. GTS staff will meet with the SMM exhibits team weekly in a conference call to discuss their progress.

The attached invoice reflects SMM's final expenses for design development in preparation for fabrication of the pilot exhibit. Subsequent reports will include invoices for pilot fabrication expenses.



**Science
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Fed ID# 41-0706172 MN ID# 8357191 DUNS#06-145-1670

Sold to: Gateway to Science
1810 Schafer Street, Suite 1
Bismarck, ND 58501-1218

Invoice Number: 16-0499B
Invoice Date: 6/30/2017

Description	Quantity	Price
Design Development – Ethanol Exhibit Finalize design for pilot exhibit	1	10,000.00
Total Amount Due	1	10,000.00

Remit in U.S. Currency

Science Museum of Minnesota is an AA/EEO Employer.

Customer Copy

Please detach and enclose remittance copy with your payment.

EXH

Customer ID: GatewaytoSci

Customer Name: Gateway to Science

Invoice Number: 16-0499B

Invoice Date: 6/30/2017

Invoice Amount: \$10,000.00

Remit Payment To:

Science Museum of Minnesota
Attention: Accounts Receivable
120 West Kellogg Boulevard
Saint Paul, MN 55102

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