

OFFICE OF THE PRINCIPAL
GLENBROOK NORTH HIGH SCHOOL

To: Dr. Riggle

From: Paul Pryma 

Re: GBN GADGET Field Trip March 4 -7, 2010

Date: February 11, 2010

Please read the attached document from GBN science teacher, Ms. Lynne Zielinski. I am pleased to recommend the district's support for the finalists of NASA's Pete Conrad Spirit of Innovation Competition to travel to the Mattson Corporation headquarters. Mattson Corp. is providing the group with \$1,000 towards travel expenses. The remaining cost per student for lodging and air fare is approximately \$300. This trip does not require District funding.

If you have any questions, please contact me at your convenience.

Thank you for your consideration.

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To: Mr. Paul Pryma

From: Lynne Zielinski

Date: February 8, 2010

RE: GADGET Finalist Student Travel

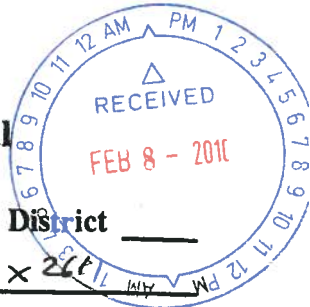
Three GADGET students who entered the Pete Conrad Spirit of Innovation Competition have been selected as one of six national finalist teams in the Space Nutrition category. As a result, they have been invited to travel to the Mattson Corporation headquarters and manufacturing plant in Foster City, California to produce 80 one ounce bars for the final phase of the competition.

Two days of their trip will be spent at Mattson, where the students will work to refine their nutrition bar and submit a production quality batch for final judging. Students will work with a team of food scientists in product development lab to convert their original formula to industrial food grade ingredients ready to go to a commercial food plant. They will use industrial analytical equipment to analyze and improve their product.

The students will later travel to NASA Ames Research Center for the Pete Conrad Spirit of Innovation Summit in early April with another GADGET finalist team for the awards presentation, present their ideas to world level venture capitalists, angel investors, business leaders, and scientists. Selected teams will receive funding to continue the development of their products and may go on to participate in The Portal, where they may choose to patent their product and have an opportunity to enter the commercial marketplace.

GLENBROOK HIGH SCHOOLS

Travel Requests Requiring Board of Education Approval



I. School GBN ~~GBS~~ GBE GBOC District _____
 II. Initiator LYNNE ZICZINSKI Phone X 2211
 Position PHYSICS TEACHER Date of Submission 2/8/10

III. Dates and Times of Leave/Return
 Total Number of School Days Missed per Person 1
 Departure Date/Time 3/4 EVENING Return Date/Time 3/7 AFTERNOON

IV. Name of Individuals Participating in Tour: (Attach list if necessary.)
 Teachers and Staff LYNNE ZICZINSKI ROBERT FROELICHT
 Students _____

V. Description, Destination, and Reason for Trip
FOSTER CITY, CA TO MATSON CORP - STUDENTS ARE FINALISTS IN
PETE CONRAD SPIRIT OF INNOVATION FOOD NUTRITION COMPETITION
THEY WILL BE WORKING WITH SCIENTISTS TO IMPROVE NUTRITION
BAR

VI. Cost of Trip
 Was this trip included in your Dept. No Bldg. No District No Budget?

	Total Amount	Per Person	Account #
Registration	<u>NONE</u>		
Lodging			
Meals (Advance)			
Judging		<u>N/A</u>	
Substitute Teacher		<u>N/A</u>	
Transportation			
Air			
Bus/Car			
District Total		<u>N/A</u>	<u>N/A</u>
Cost to Student	<u>~\$300</u>		<u>N/A</u>

VII. Approval
[Signature] [Signature] [Signature]
 Supervisor Principal Superintendent
2/8/10 2/9/10 2/11/10
 Date Date Date

Reminder: No purchases or expenses prior to Board of Education approval.

Form approved by Board of Education 12/15/97.

Mattson (Space Nutrition Teams ONLY)

Finalists in the Space Nutrition category will work with Mattson Inc. – a top food science laboratory – to refine their nutrition bar and submit a production quality batch for final judging. Each team must arrange individually with Mattson Inc. to secure a date in February for this 2-day experience. Contacts for Mattson are provided in the contact section of this packet. Your experience at Mattson will loosely follow a schedule like this:

1st day at Mattson

- Work side by side with a team of Food Scientists in a product development lab to convert original formula to industrial, food grade ingredients ready to go to a commercial food plant
- Refine the formula to improve appearance, texture, aroma and flavor
- Use Genesis software (<http://www.esh.com/>) to estimate nutritionals and micronutrients
- Define specifications for bar using analytical equipment including the water activity meter, refractometer and pH meter. The water activity will indicate if the bar has a low moisture content that will inhibit microbial growth, the refractometer measures the sugar density to determine if the product has a possibility of crystallizing over time and the pH meter will test the acidity.
- Quantify exact specifications for dimension and density which is important when choosing packaging and making the bar on a large commercial scale.

2nd day at Mattson

- Further optimize organoleptic (taste, texture, aroma and color) qualities and make any desired adjustments and refinements
- Produce bars and package preparing to ship and be evaluated by the judging panel for final scoring
- Submit samples for microbiological testing, this will test the microbial levels that indicate safety for our judging panel to consume.



MATTSON

www.foodcom.com

Contacts

Space Nutrition Questions – for space nutrition teams to setup a dates to come to Mattson's food science lab and refine your final nutrition bar.



Peter Dea
(650) 356-2535
pdea@foodcom.com

Heather Teuscher
(650) 574-8824
heather@foodcom.com

PETER DEA
650 356-2535

Conrad Foundation Website Questions

Rob Rosko
415.254.4109
rob@robrosko.net

Rules & Award Questions

Joshua Neubert
617.970.6650
Joshua.neubert@conradfoundation.org

617 970
6650

Green Schools Questions

Matt Macko
macko@ebsconsultants.net

Team Advisor Questions - Each team will be send advisor contact individually. If you have not received notification of your advisor by February 1st, please contact Joshua Neubert at the above information.

Innovation Summit Questions – an additional information packet will be sent specifically concerning all details of the Innovation Summit on February 1st. If you do not receive this, please contact Joshua Neubert.

**For Communication and Collaboration that may be off interest to All finalist teams
Please post notices on the Conrad Awards forums online, so that all teams may benefit
from the discussion.**

**And again, CONRATULATIONS! On being accepted as a Spirit of Innovation Awards
finalist. We are excited to work with you on the future of your great Ideas.**

[Food Tours and Trends](#)
[Tidbits Newsletter](#)
[Mattson Innovation Radio](#)
[Trend Box](#)
[Trend Box Newsletter](#)

Mattson Foundation

Contact Us

[Our Mailing Address](#)
[Directions to Mattson](#)
[Careers at Mattson](#)

Our Mailing Address

Mattson
383 Vintage Park Drive
Foster City, CA 94404
Phone: (650) 574-8824

info@foodcom.com



Hotel Recommendations

Walking Distance to Mattson office

Crowne Plaza
1221 Chess Drive (across from Mattson offices)
Foster City CA 94404
650/570-5700
FAX 650/570-0540

Hilton Garden Inn San Mateo
2000 Bridgepointe Circle
San Mateo, CA 94404
650/522-9000

Courtyard by Marriott
550 Shell Blvd.
Foster City CA 94404
650/377-0600

10 minute drive to Mattson office

Hotel Sofitel at Redwood Shores
223 Twin Dolphin Drive
Redwood City CA 94062
650/598-9000

Marriott San Mateo
1770 So. Amphlett Blvd.
San Mateo, CA 94401
650/653-6000

Between SFO Airport & Mattson office

Hyatt Regency
1333 Bayshore Highway
Burlingame, CA 94010
650/347-1234

Marriott
1800 Bayshore Highway

~~Fri 9 AM TH 3/4~~

~~485 hotel flight~~

~~Authan-g rocks @ es. f~~

~~Cash Air = 22 \$411
4 tickets
3 Nig~~

~~Best Shuttle - 866-333-2378
\$45~~

Glenbrook High School District #225

BOARD POLICY: STUDENT TRIPS

7230

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Section A - Introduction

The Board of Education believes that structured learning should not be limited to the classroom. Valuable experiences for Glenbrook students exist within and outside the boundaries of District #225. The Board also realizes that additional responsibilities arise whenever students are taken from the school premises. Staff, parents, and students should be aware of these responsibilities and the necessity for reasonable administrative procedures. The physical welfare of our students and staff must always be paramount in our considerations. It shall be the policy of this Board of Education to maintain insurance for the liability of the district, its board members, its employees, and authorized volunteers as a result of student injury, property loss and general liability coverage on student trips. It shall also be the Board's policy to encourage the maintenance of adequate personal automobile liability and medical insurance by our staff members.

Section B - Definition of Student Trips

A student trip shall be considered to be a school-sponsored activity away from the school premises usually falling within two major areas.

1. **Instructional Field Trips and Extended Classroom:**

Instructional field trips provide experiences out of the classroom that are normally carried on during regular class hours and are related to the planned curriculum. In some instances pre- and post-school hours may be utilized.

- a. A field trip implements and/or augments group classroom instruction. Transportation for field trips is restricted by The School Code to Illinois or adjacent states.
- b. An "extended classroom" allows individual students to pursue their studies in various work-related, volunteer, or observation activities outside the classroom.

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2. Student Activity Trips:

Student activity trips are connected with regularly sponsored in school or post-school programs and may include but not be limited to the following:

- a. An activity trip as part of an extracurricular activity
- b. A contest (or practice for a contest) between students representing Glenbrook and another secondary school, or between participants in intramural sports (contestants, cheerleaders, marching band, etc.)
- c. A performance or exhibition displaying special talent by an individual or group of students (e.g., band, chorus, etc.)
- d. A convention or workshop in which an individual or group of students representing Glenbrook participate (e.g., student council convention or workshop)

Section C – General Parameters

1. All student trips must be approved by and will be subject to the procedures set forth by the school principal or the designated representative.
2. Recommendation of the principal and approval of the superintendent shall be required for all overnight student trips. Recommendation of the principal and the superintendent and approval of the Board shall be required for all student trips conducted outside the State of Illinois or adjacent states.
3. Funding for student trips shall be in accordance with the guidelines adopted by the Board.
4. No student shall be penalized for non-participation in a class field trip. No student shall be penalized for participation in a class field trip or student activity trip.
5. Reasonable administrative care should be taken to ensure safety and orderly behavior on all student trips. Staff members shall accompany all field trips except “extended classroom” trips.
6. All Board and school policies, procedures and regulations regarding student conduct apply for students on student trips.

BOARD POLICY: STUDENT TRIPS

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7. Transportation on all student trips should be by district-owned vehicles or by commercial vehicles, whenever practical. Occasionally, because of a limited number of participating students, private transportation is permissible when approved by the principal or the designated representative. In these instances, travel may be by private automobile, if the driver is a Glenbrook staff member, parent, or student.
8. Students participating in student trips must travel to and from the trip's destination in the school-sponsored mode of transportation unless an exception for good cause is made by the trip's sponsor for the student to be transported by the student, his/her parent or guardian.
9. The Parental Permission Slip and Field Trip Request Application, as specified in the procedures to this policy, shall be used in complying with this policy.

Source: School Code; Section 10-20.19
10-22.22,
10-22.29b
29-3.1

Revised: February 6, 1978
Revised: September 10, 1984
Revised: October 28, 1996
Revised: May 29, 2001
Revised: July 10, 2006