Ector County ISD
068901

STUDENT ACTIVITIES: FMG
TRAVEL   (EXHIBIT 21)

EXTRA-CURRICULAR
STUDENT TRAVEL APPROVAL FORM

Student travel must be approved based on the direct benefits for the students. The trip must have approval of Superintendent or designee before any travel arrangements and reservations are made or students and parents become involved with any facet of the trip. Out-of-state travel must have Board approval.

Name of Group: OHS Robotic Team   Campus: Odessa High School

Date of trip: 3/30/2012 – 4/4/2012 Grade levels involved: 12th   Number of students: 5
Number of instructional days: 4   Location: Trinity Robotic Contest Hartford, Connecticut
(Please attach an itinerary)   Trinity College

Funding source: ___District Budget ___Campus Budget ___Department Budget X Activity fund X Personal

Instructional days out of the classroom: The sponsors/coaches/directors have checked the accrued number of days for each participant? X Yes ___No

Trip function: ___Cocurricular ___Extracurricular X Competition (Non-athletic)

Trip profile: ___In-state X Out-of-state ___Overseas ___Tour ___Field trip X Invitational
___Annual ___Biennial ___Post-district ___Competition associated with a tour or attraction

Transportation mode: ___School bus ___School suburban ___Charter bus X plane

How does the trip relate to and benefit the Campus Improvement Plan, District Improvement Plan and/or the TEKS?

Does the trip require fund-raisers? X Yes ___No (OHS Coffee Shop "Java Hut" - Computer Science
                                                      Club Activity Fund)
Are deadlines established to guide the sponsors/directors if the trip has to be canceled due to lack of funding?
 X Yes ___No

How many sponsors will accompany the students? 2
What is the ratio of sponsors to students?   Sponsors 2 /Students 5   (gender appropriate)

Student orientation - Date: 1/19/2012   Time: 4:15 pm Location: DHS Room 227
Parent orientation - Date: 1/26/2012   Time: 5:15 pm Location: DHS Room 227
Sponsor orientation - Date: 1/26/2012   Time: 5:15 pm Location: DHS Room 227
Sponsor criminal background check - Date: Whalen / Brant ECISO Teachers
Will any kind of insurance be required?   ___Yes X No
Will room and baggage searches be required?   X Yes ___No

Medical and travel releases will be required.

Coach/Sponsor: _Cheri Whalen_____   1/13/2012
                        (Signature)   (Date)

                          Field Trips/Excursions
                          UIL Competition

Principal approval: _Joe Koper_____   1/18/12
                        (Signature)   (Date)

                        (District Sanctioned Competition)
                        (K-8 Field Trips/Excursions)

Superintendent or designee
Approval: _____   1/24/12
                        (Signature)   (Date)

                            (Out-of-state)
Board
approval: _____   _____
                        (Signature)   (Date)

DATE ISSUED: 04/21/04   REVIEWED: 9/2009   1 OF 1
FMG (EXHIBIT 21)

Ector County ISD
068901

COMPENSATION AND BENEFITS   DEE
TRAVEL   (EXHIBIT C)

Form 103   OUT OF STATE
                        EMPLOYEE TRAVEL APPROVAL FORM

Campus _Odessa High School_   Current Assignment _Computer Science Teacher_

Employee travel may be approved based on the instructional benefits for the students and the District. Out-of-state travel must be submitted to the Assistant Superintendent or Executive Director over the campus or Department. The Assistant Superintendent or Executive Director will review the request and notify the principal. Approval must be granted before an employee registers or makes reservations for a conference.

Name: _Cheri Whalen_

Campus: _Odessa High School_   Current Assignment: _Computer Science Teacher_

Name of trip/conference and organizer (i.e., TEPSA, TASA, TAGT, etc.) _Trinity College Firefighting Robot Contest, Trinity College, Hartford, CT._

Date of trip/conference: _3/30/2012 - 4/4/2012_ Location: _Hartford, CT_

Funding source: Budget (____ school ____ department)
                       ____ Activity Fund
                       ____ Personal
                       ____ Outside Agency

Instructional days out of the classroom: _4_ (day/s this trip) ____ (day/s this year)
Substitute required?   _X_ Yes   ____ No

How does this trip relate to the TEKS and/or benefit instruction?
Please explain, including the educational objective:

    #1 See Attached

How does this trip relate to and benefit the Campus Improvement Plan?
Please explain, including the educational objective:

    #2 See Attached

How does this trip relate to and benefit the District Improvement Plan?
Please explain, including the educational objective?

    #3 See Attached

How will the information learned be shared within the District?
___Certifies applicant to train others in the District _X_Report to principals
_X_Report to departments/others on campus ___Report to the Board, Superintendent's
                                              Leadership Council, or Instructional Collaborative
                                              Team

Does this trip relate to making a presentation representing the District? ____ Yes _X_ No
Who initiated the request? ____The organization or conference ____The District ____TEA
(Please attach the notification of acceptance) – _Registration is 1/15/2012_

DATE ISSUED: 01/14/03   ADOPTED: 12/17/02
DEE (EXHIBIT C)   UPDATED: 08/24/2006   1 of 2

Ector County ISD
068901

COMPENSATION AND BENEFITS   DEE
TRAVEL   (EXHIBIT C)

Does this trip relate to an award or recognition for the District? _____ Yes   X No
Who initiated the recognition? _____ Local _____ State _____ National
(Please attach the acknowledgment of recognition)

Employee signature: _Cheri Whalen_   _1/13/2012_
                              Signature   Date

CIT approval: _N/A_
(if required by Principal)   Signature   Date

Principal approval: _Joe Koper_   _1/18/12_
                              Signature   Date

Director approval: _____
(if outside the campus budget)   Signature   Date

Assistant Superintendent or Executive Director
approval: _____   _1/24/12_
                              Signature   Date

All directors must approve travel financed with categorical funds.

ATTACHMENT:
FORM DEE (EXHIBIT C)

1. **How does this trip relate to the TEKS and/or benefit instruction?**
   Please explain, including the educational objective:

Objective: Build, design and program an autonomous robot.

This project is aligned with Texas Essential Knowledge and Skills for Computer Science. The students will:
- Select the technology appropriate for the task, synthesize knowledge, create a solution and evaluate results.
- Make decisions regarding the selection, acquisition, and use of software taking under consideration its quality, appropriateness, effectiveness, and efficiency.
- Determine and employ methods to evaluate the design and functionality of the process using effective coding, design, and test data.
- Develop sequential and iterative algorithms and codes programs in prevailing computer languages to solve practical problems modeled from school and community.
- Participate with electronic communities as a learner, initiator, contributor, and teacher/mentor.
- Participate in relevant, meaningful activities in the larger community and society to create electronic projects.
- Seek and respond to advice from peers and professionals in delineating technological tasks.
- Seek and respond to advice from peers and professionals in evaluating the product.
- Debug and solve problems using reference material and effective strategies.
- Demonstrate coding proficiency in Java object oriented programming language.
- Research advanced computer science concepts such as applied artificial intelligence, expert systems, robotics, depth-first/breadth-first and heuristic search strategies, multitasking operating systems, or computer architecture.

2. **How does this trip relate to and benefit the Campus Improvement Plan?**
   Please explain, including the educational objective:

Objective: To expose students in the Computer Science Robotics Program at Odessa High School to an international academic contest and contribute to building dreams of attending college with a vision of reality of competition and rewards of hard work and preparation.

- Students will design, build and program a robot and compete successfully at a national competition.
- Students in surrounding classes, subject areas and different levels will participate in practice exhibitions, increasing interest and enrollment in computer science courses in ECISD.
- Students will learn teamwork and project time management.
- Students will be visible to the community through public announcements in the media.

1

- Students will share their knowledge and experience with schools and businesses.
- Students will gain a working knowledge of career options in the area of computer science.

3.   How does this trip relate to and benefit the District Improvement Plan?
Please explain, including the educational objective:

Objective: To expose students in the Computer Science Robotics Program at Odessa High School to an international academic contest and contribute to building dreams of attending college with a vision of reality of competition and rewards of hard work and preparation.

The Trinity Robotics contest aligns with DIP Strategic Goal S#3 listed below.

District Improvement Plan Strategic Goal S #3: Strengthen what and how we teach; Structure the core curriculum so key curriculum components are seen in every classroom.
Areas of focus:
- TEKS/Standards (See No. 1 above)
- Quality Learning Activities: Students use scientific method to develop the robot and software
- Quality Assessments: Students are judged in relation to students from China, Israel, Indonesia, Portugal, Mexico and the USA are expected to register. Judges are professional engineers and professors from elite programs such as MIT.
- Quality student products : Students design and test their robot projects
- Introductory Activities: Workshops at the contest are presented by MIT and National Instruments.
- Quality Resources to support learning: Support for students from the contest sponsors include National Instruments, IEEE, and Lockheed Martin.
- Quality Teaching: Students are interviewed and have question and answer sessions with visiting judges, peers and engineering and robotics experts during the pre-contest period.
- Strategies/Methods: Students are required to use the Scientific Method
- Extension Activities: Compete with high school and college students from around the world
- Grouping Strategies: NA
- Modifications for Learner Need : NA