



AND



PROJECT LEAD THE WAY

**PLTW**

“Learning to live in a technical world.”

# Ted Wilkinson



- Interim Missouri State TSA Advisor
- Full time Teacher/Department Chair
- TBHS TSA Chapter Advisor
- MO TSA Board of Directors



# TSA's Mission Statement

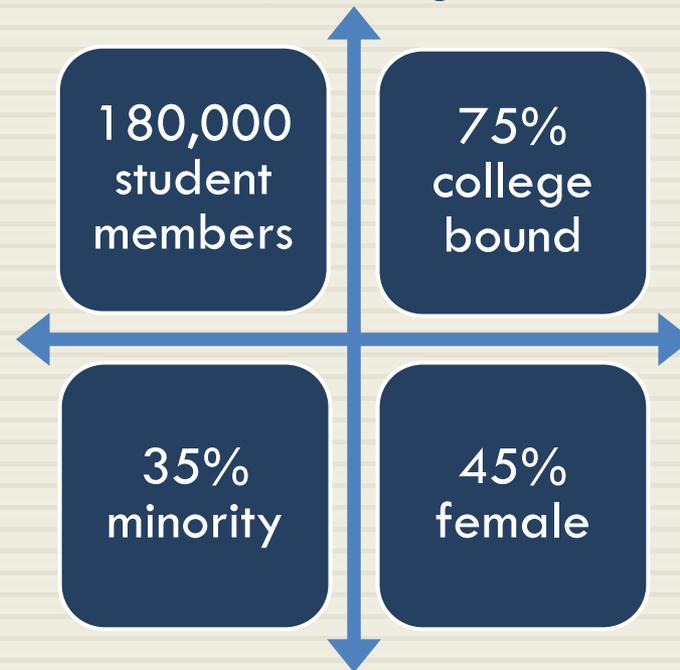


The Technology Student Association fosters personal growth, leadership, and opportunities in technology, innovation, design, and engineering. Members apply and integrate science, technology, engineering and mathematics (STEM) concepts through co-curricular activities, competitive events and related programs.

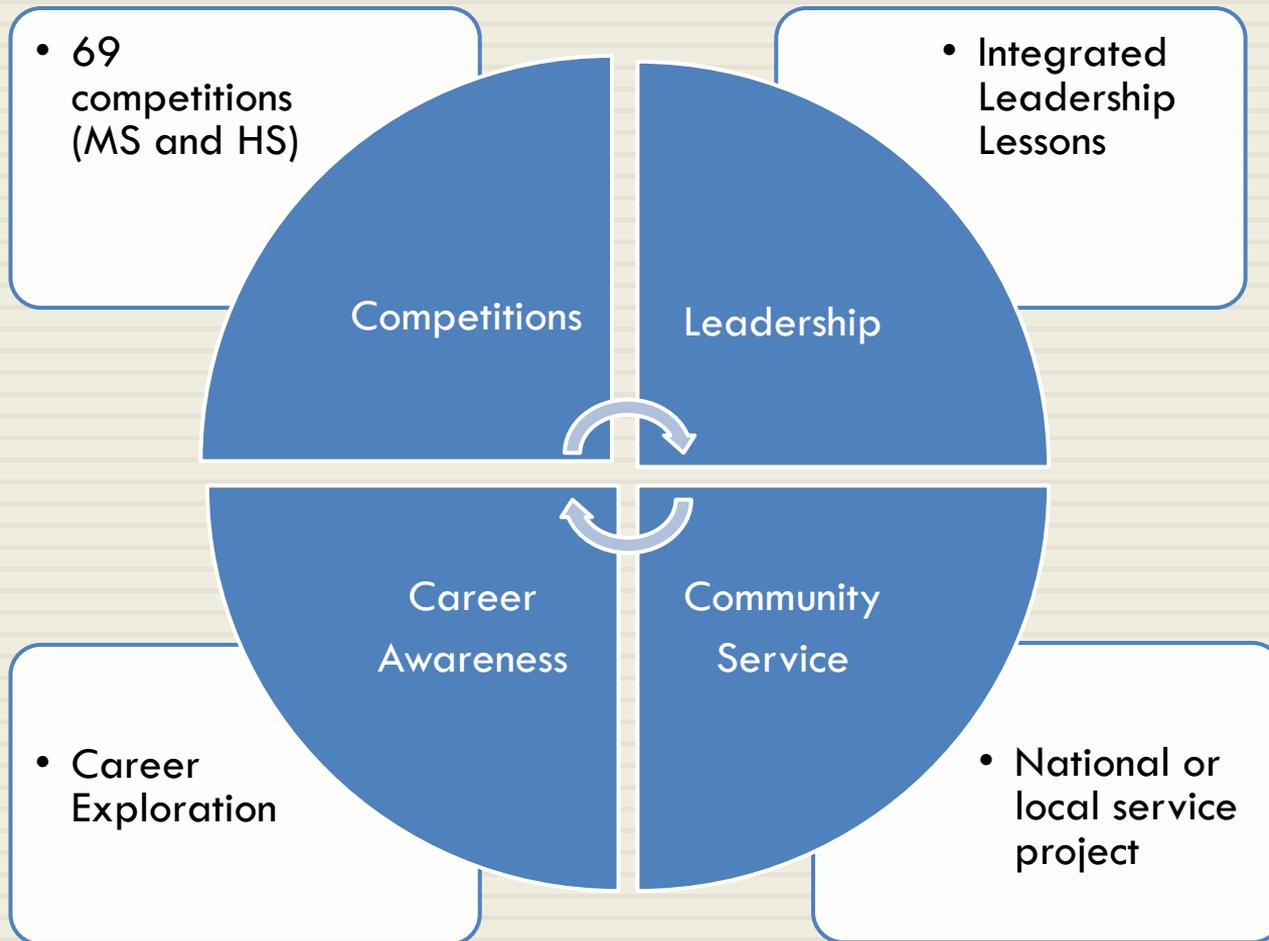
# Who We Are



- The Technology Student Association provides a rigorous and relevant program to middle and high school students who have a common interest in technology, innovation, design and engineering.



# What TSA Offers



# TSA and STEM



- TSA competitions provide a hands-on venue for learning about science, technology, engineering and mathematics (STEM).
- TSA competitions align with national criteria for science, technology, engineering, and mathematics (STEM).



# Career Clusters



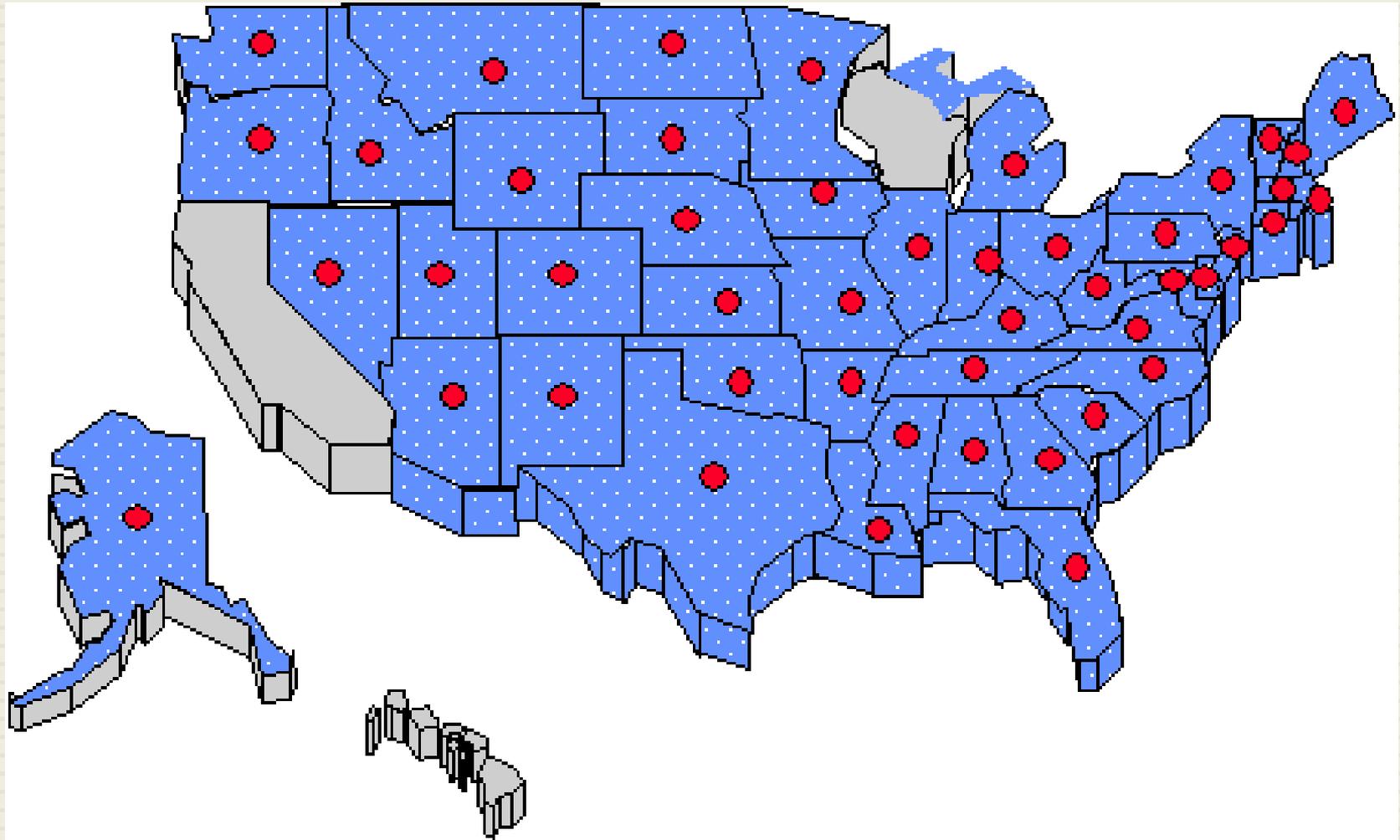
TSA competitions support learning in identified Career Clusters



# Career Clusters



# Chartered/Active State Delegations



# TSA's Primary Benefit – OPPORTUNITY



- TSA gives students the opportunity to....

Practice  
problem  
solving

Develop  
leadership  
skills

Explore  
career  
options

Receive  
recognition

Utilize  
critical  
thinking skills

Participate  
as a team  
member

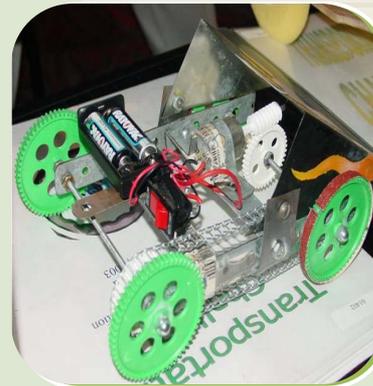
# TSA Competition Samples



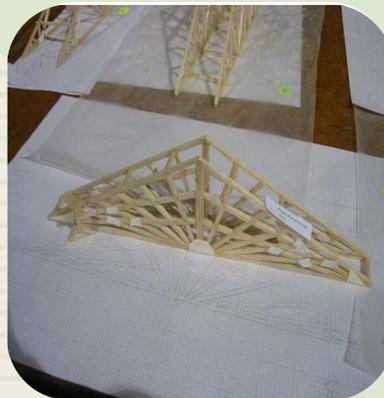
Engineering  
Design



Transportation  
Challenge



Structural  
Engineering



F1 in Schools  
Challenge



# TSA Leadership Skills



TSA competitions teach vital leadership skills including:

- Teamwork
- Organization
- Communication
- Goal Setting
- Problem Solving
- Critical Thinking



# Suggested Chapter Activities



Chapters participate in a variety of activities that fulfill their program of work during the year.

These might include:

- ▶ electing chapter officers
- ▶ producing a chapter newsletter and/or website
- ▶ participating in community service projects
- ▶ planning social events like cookouts, picnics, etc.
- ▶ visiting technology companies and hosting guest speakers
- ▶ attending the TSA state or national conference

# Timeline For Your Chapter



## First Days/Beginning Weeks

### Course Information

- Elect officers
- Determine objectives
- Establish TSA purposes

### Leadership

#### Development

- Newly-elected officers may attend state leadership events

## During School Year

### Course Management and Learning Activities

- Follow class meeting procedures
- Establish committees
- Promote safety rules
- Integrate TSA programs and activities
- Promote TSA Week
- Prepare for competitive events
- Coordinate service project
- Explore career opportunities

## Spring and Summer

### State and National Opportunities

- Attend state/reg. conferences
- Participate in natl. TSA conference

# Factors For Success



Organizing a local TSA chapter in a technology education program at your school involves many factors.

- ❑ An interested instructor
- ❑ Interested and motivated students
- ❑ A good working team of chapter officers
- ❑ The cooperation of the school administration



# Membership Dues



Red CAP— best for small chapters. Chapter pays \$90 national dues plus applicable state (MO \$60) and local dues.

And

This is for chapters under 10 members. Once you have 10 members, you move up to White Cap membership. You may add members as needed up to the deadline.

# Membership Dues



White CAP— best for medium chapters. Each member pays \$9 national dues plus applicable state (MO \$6) and local dues.

And

Chapters from 10 to 40 may want to choose this option. You may add students as needed up to the dead line and can move up to Blue CAP

# Membership Dues



Blue CAP – Best for large chapters. The chapter pays national dues of \$350 and applicable state (MO \$175) and local dues. This is a flat fee that pays for unlimited membership.

And

TSA is a unified Membership organization. You must be a member of the Local, State and National associations

# Priority Membership Affiliation



- affiliate by November 26, 2013, chapters will receive:
- a gold seal affiliation certificate
- uninterrupted membership service
- a small gift as a token of appreciation
- one complementary TSA official shirt (may be last year)
- the Total TSA CD - one CD (HS or MS) with competitive event guidelines, leadership lessons and membership materials

# Standard Membership Affiliation



- ❑ the Total TSA CD - one CD (HS or MS) with competitive event guidelines, leadership lessons and membership materials
- ❑ online access to print membership cards
- ❑ e-mail updates from national TSA
- ❑ the ability to participate in local, state and national TSA conferences

# Need Help Getting Started?



The best way to get help is at

# **Missouri TSA Connections Conference**

# Connections Conference (MO)



- Fall of each year, Usually October
- Students run a Color Chapter
  - ▣ Run and Elect Officers
  - ▣ Set Up and work in Committees
  - ▣ Set up a Plan of Action and complete it

# Connections Conference (MO)



- Students Earn Leadership Degrees
  - Basic Degree
  - Academic Degree
  - Collegiate Degree
  - Scholar Degree
- Students compete in leadership events

# Connections Conference (MO)



- For Students and Advisors
- Limited to 300 participants
- Registration includes:
  - ▣ Training
  - ▣ Curriculum Materials
  - ▣ 5 meals

\*\*\*\*\**Affiliation not required*\*\*\*\*\*

# Want to Compete?



# Missouri TSA Distinctions Conference

# Distinctions Conference (MO)



- 30+ High School Competitive Events
- 30+ Middle School Competitive events
- VEX Robotics Competition
- F1 in Schools Competition

# Distinctions Conference (MO)



## Other

- Run for State Office
- Conduct TSA Business meeting
- Qualify for Nationals
- Campus Tours

\*\*\*\*\**No Meals provided*\*\*\*\*\*

# Conference Location



# National TSA Website



[www.tsaweb.org](http://www.tsaweb.org)



Competition overviews

National conference

Leadership activities

Featured member

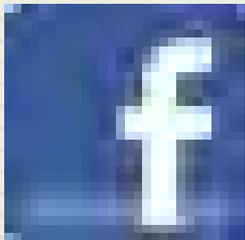
Opinion poll

TSA store



# Missouri TSA Website

[www.motsaweb.org](http://www.motsaweb.org)



Missouri TSA

# TSA Curriculum



- TSA provides Total TSA disc after affiliation
- High School and Middle School editions
- Updated every 2 years
- Each CD contains 3 books
  - Membership material
  - Leadership lessons
  - Competitive Events Guide
    - 2 years of guide lines
    - Yearly design briefs published on TSA Website

# What do CTSOs do?



- Career and Technical Student Organizations (CTSOs) provide opportunities to develop and refine the skills you'll need in your chosen occupational area.
- Conferences, competitions, workshops, community service, and other activities encourage leadership development and career exploration.
- CTSOs are considered "co-curricular" because participants must be enrolled in career education coursework through a comprehensive high school, area career center, or community college, with an organized chapter of the related CTSO.

# Why have a CTSO?

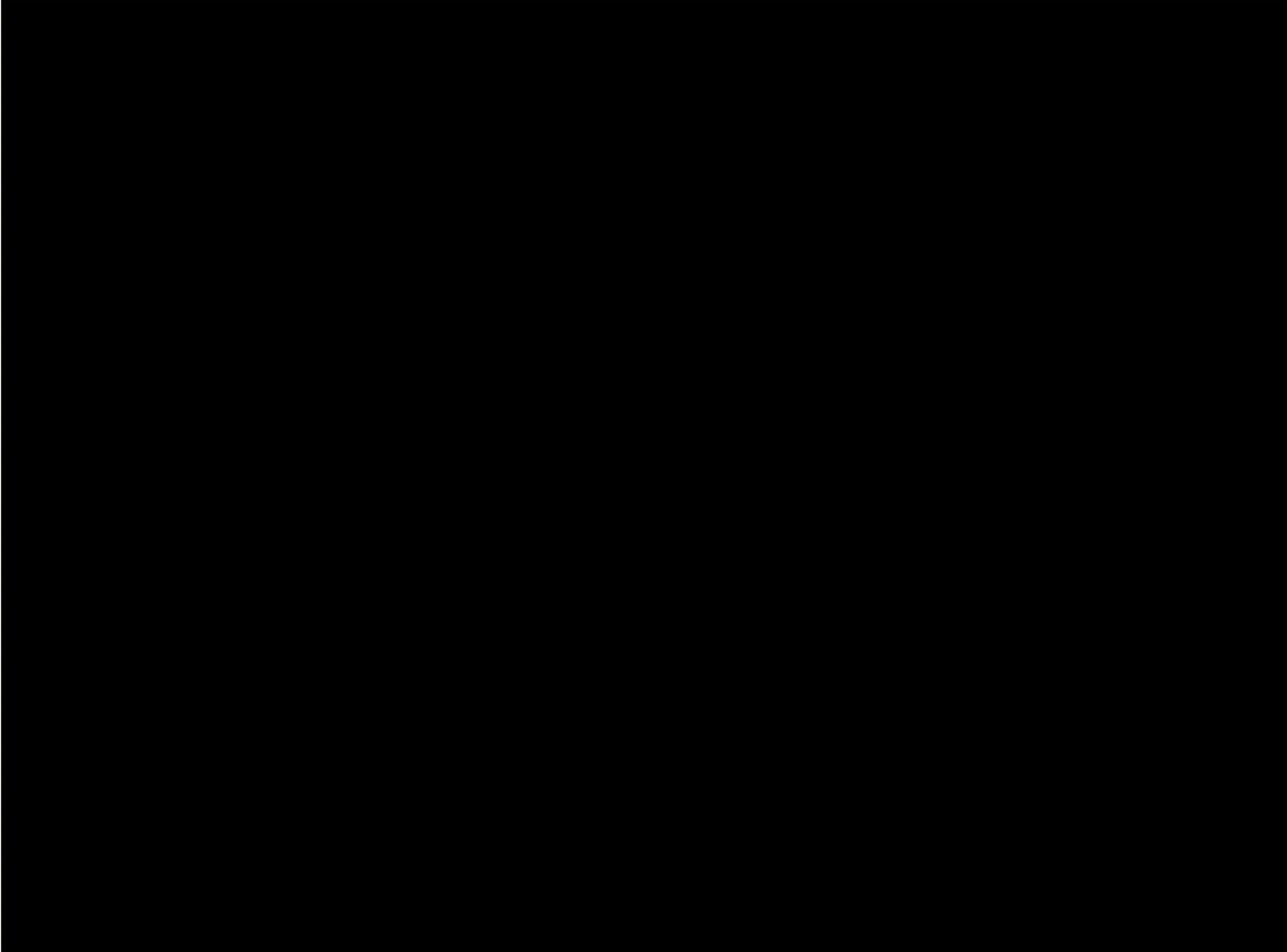


- *The more students participate in Career Technical Student Organization (CTSO) activities, the higher their academic motivation, academic engagement, grades, career self-efficacy, college aspirations and employability skills.<sup>i</sup>*
- *i Alfeld et al., Looking Inside the Black Box: The Value Added by Career and Technical Student Organizations to Students' High School Experience, National Research Center for CTE, 2007*

# Brandon Franck



# Brad Wolfe



# CTSOs vs. Clubs



## □ CTSO

- National & State backing
- Co-Curricular material provided
- National, State and local Leadership opportunities
- Career Exploration opportunities
- Competitive events

## □ Club

- Locally backed
- Competitive events
- Extra-curricular activities

# For more information



National TSA  
1914 Association Drive  
Reston, VA 20191-1540  
Phone: 703/860-9000 Toll free: 888/860-9010  
[www.tsaweb.org](http://www.tsaweb.org)

# Resources



- [www.tsaweb.org](http://www.tsaweb.org) National TSA web page
- <http://www.tsaweb.org/Toolkits-and-Resources>
  - <http://www.tsaweb.org/Promotional-Toolkit>
  - <http://www.tsaweb.org/Advisor-Toolkit>
- [www.motsaweb.org](http://www.motsaweb.org) Missouri TSA webpage
- [wilkinst@troy.k12.mo.us](mailto:wilkinst@troy.k12.mo.us) Ted Wilkinson's email