



2004-2005 National Semi-Finalists

Entry Title: ***Recycle Your H₂O – Gray Water is the Way to Go***
Coach's Name: Deborah Magish
School Name: Our Lady of Perpetual Help
City: Scottsdale
State: Arizona
Problem: Water conservation in drought stricken Arizona.
Solution: Public service announcement, legislation and tax credits to encourage people to reuse house water for irrigation.

Entry Title: ***Mobile Veterinary Clinic and Pet Care/Safety***
Coach's Name: Christy Moore
School Name: McSwain Elementary School
City: Merced
State: California
Problem: Inadequate pet care and lack of vaccinations for many community animals.
Solution: Mobile Pet Clinic – to bring care and general "education" about pets to the community.

Entry Title: ***Fog Radar Saves People Lives!!!!***
Coach's Name: Yvonne Tillett
School Name: McSwain Elementary School
City: Merced
State: California
Problem: Increase in traffic accident deaths due to poor weather conditions.
Solution: Redesign Doppler Radar units to fit onto cars to assist drivers so they will have a way to gage traffic during bad weather.

Entry Title: ***EZgrip***
Coach's Name: Rhonda Epstein
School Name: Solana Pacific School
City: San Diego
State: California
Problem: Disabled people having trouble closing their hands in order to grip their toothbrush.
Solution: EZgrip: a silicon based devise that attaches to the toothbrush and provides a larger gripping surface.

Entry Title: ***ABCP Water Saver***
Coach's Name: Cindy Costanza
School Name: Timberview Middle School
City: Colorado Springs
State: Colorado
Problem: Decreasing water levels in Colorado Springs due to drought.
Solution: ABCP: a device that attaches to gutters and saves the rainwater for outdoor uses.

Entry Title: ***Don't Get Burned!***

Coach's Name: Karen Howel
School Name: Hillel Academy
City: Fairfield
State: Connecticut
Problem: Flammability of fake finger nails.
Solution: Education program – including safety posters and danger labels to inform people of the hazard.

Entry Title: ***Witness Fitness***
Coach's Name: Karen Howell
School Name: Hillel Academy
City: Fairfield
State: Connecticut
Problem: Child obesity.
Solution: "Witness Fitness": a board game with action cards – as students move around the board accumulating cards, they gain points by completing a physical activity.

Entry Title: ***Canada Geese Police***
Coach's Name: Larry Lesh
School Name: Memorial Park Middle School
City: Fort Wayne
State: Indiana
Problem: Too much geese feces.
Solution: Educational program designed to inform the community about the feces problem and how to handle it.

Entry Title: ***The Busometer***
Coach's Name: Diane Rabalais
School Name: Fontainebleau Junior High School
City: Mandeville
State: Louisiana
Problem: Accidents caused by bus drivers not being able to see students as they cross in front of the bus.
Solution: Busometer: a motion sensor alarm system that would sound as the students crossed in front of the bus. Once everyone/thing was out from in front of the bus, the alarm would stop.

Entry Title: ***Mentors Matter***
Coach's Name: Jessica Theriault
School Name: Higgins Middle School
City: Peabody
State: Massachusetts
Problem: Lack of support at home to teach good study habits, introduce technology and help with homework causing some students trouble in school.
Solution: Create a mentoring program to assist those students who need educational support.

Entry Title: ***The No Pond Pollution People's Water Problem***
Coach's Name: Thomas Rogers
School Name: Holy Infant School
City: Ballwin
State: Missouri
Problem: Polluted neighborhood ponds are breeding grounds for mosquitoes, and are an eyesore.

Solution: Restore the pond by making it deeper, adding a fountain to circulate water, stock some fish and educate the public about the harmful chemicals found in their lawn fertilizers.

Entry Title: ***Auto-MAT-ic***

Coach's Name: Marilyn Hamot Ryan

School Name: Saddle Brook Middle School

City: Saddle Brook

State: New Jersey

Problem: Injuries sustained by seniors from falls at home in the dark.

Solution: Auto-MAT-ic: a mechanical lighting system that turns a lamp on promptly and without difficulty.

Entry Title: ***Bacteria Busters***

Coach's Name: Marilyn Hamot Ryan

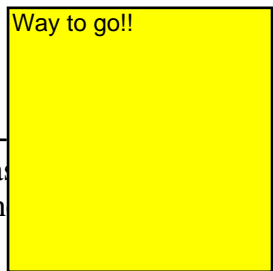
School Name: Saddle Brook Middle School

City: Saddle Brook

State: New Jersey

Problem: Bacteria laden restrooms.

Solution: An awareness campaign for young students to wash their hands and a device that verbally reminds students to wash their hands.



Entry Title: ***Franklin Borough School Team One***

Coach's Name: Judy Guttlerner

School Name: Franklin Borough School

City: Franklin

State: New Jersey

Problem: Poor math skills of upper grade students.

Solution: Create a math program focusing on division to help younger students understand and master math to help them when they get older.

Entry Title: ***Ding-Gone***

Coach's Name: Eileen Anderson

School Name: Island Trees Middle School

City: Levittown

State: New York

Problem: Automobile dents caused by runaway shopping carts.

Solution: A rubber lining on shopping carts that would act as a cushion between the car and the runaway cart to stop dings.

Entry Title: ***The "Chade Bag" (a chair in a bag)***

Coach's Name: Ramon Sanchez

School Name: Edward Stitt, I.S. 164

City: New York

State: New York

Problem: Improperly designed classrooms and furniture impeding learning and adding to student fatigue, discomfort and irritation.

Solution: Classroom Seat Booster: an ergonomically designed device intended to accommodate small students in order to prevent the negative effects of inappropriate furniture used in middle school.

Entry Title: ***Marvelous Makers***

Coach's Name: Melissa Savino

School Name: Saint Agnes School

City: Avon

State: New York
Problem: Various problem caused by the flooding on Avon Park Drive.
Solution: Adding a perforated drainage pipe and layers of sand and pea gravel to help eliminate the flooding on Avon Park Drive.

Entry Title: ***Safety on the Range: The Burner Blanket***
Coach's Name: Gary Flegel
School Name: Black River Middle School
City: Sullivan
State: Ohio
Problem: Injuries caused by kitchen stove tops.
Solution: "The Blanket Burner": a fire resistant blanket that will cover hot burners to help eliminate kitchen stove top injuries.

Entry Title: ***Anti-Bullying Program West Geauga Middle School***
Coach's Name: Donna Carroscia-Platek
School Name: West Geauga Middle School
City: Chesterland
State: Ohio
Problem: Bullying.
Solution: Create an educational anti-bullying campaign for the community.

Entry Title: ***RoboSwitch***
Coach's Name: Gail Vawter
School Name: Home School
City: Westerville
State: Ohio
Problem: Power outages caused by excessive consumption of electricity during the hot summer months.
Solution: RoboSwitch: a temperature and lighting control system to help prevent power outages.

Entry Title: ***Bicycle Identification and Protection Program***
Coach's Name: Steven Long
School Name: Haverford Middle School
City: Havertown
State: Pennsylvania
Problem: Stolen bicycles.
Solution: Bicycle Identification and Protection Program; a motion-activated alarm and seven-digit identification number for bicycles.

Entry Title: ***Westerly Innovations Team One***
Coach's Name: Jason Lin
School Name: Westerly Innovations Network / Babcock Middle
City: Westerly
State: Rhode Island
Problem: Advances in technology causing an increase in electronic waste or "e-waste."
Solution: Create an E-Waste Management Plan for electronic waste.

Entry Title: ***Nature Buddies***
Coach's Name: Denise Zacherl
School Name: Westview Middle School
City: Goose Creek
State: South Carolina
Problem: School yard was barren and inhabitable for the native plants and

animals.
Solution: Build a Carolina Fence Garden – a simple landscape element that incorporates native and historical value to the school.

Entry Title: ***Ringling Angels***
Coach's Name: Denise Zacherl
School Name: Westview Middle School
City: Goose Creek
State: South Carolina
Problem: Problems the elderly and blind encounter while trying to use cell phones.
Solution: Redesign cell phones to include larger and Braille numbers, a speakerphone and a Velcro strap.

Entry Title: ***The Worry-Free Magnetic Calendar***
Coach's Name: Kim Stucki
School Name: Wasatch Junior High School
City: Salt Lake City
State: Utah
Problem: People with disabilities having trouble writing down events in their calendars.
Solution: Magnetic Calendar – a calendar that keeps track of activities and is easy to manipulate.

Entry Title: ***All Natural Speed Aid***
Coach's Name: Carrie Reardon
School Name: Grace E Metz Junior High School
City: Manassas
State: Virginia
Problem: Parents not carrying first aid items out of the house in case of emergencies.
Solution: Create a fast-clotting bandage and provide free of charge to the community.

Entry Title: ***Biosolid Babes Out to Save Our Salmon***
Coach's Name: Kimm Conroy
School Name: Christ the King School
City: Seattle
State: Washington
Problem: Pollution of local creek killing the fish population.
Solution: Education awareness program to inform the community about biosolids – an alternative to harmful fertilizers.

Entry Title: ***Recycle-icle***
Coach's Name: Lia Carlile
School Name: Life Christain School
City: Tacoma
State: Washington
Problem: Lack of community recycling.
Solution: Recycle-icle: a redesigned user-friendly recycling bin promoted by the Waste Management Systems.

Entry Title: ***Multi-Sensory Fire Alarm to Wake Up Kids Fast***
Coach's Name: Robert M. London
School Name: River Bluff Middle School
City: Stoughton

State: Wisconsin
Problem: Fire alarms failing to wake up children ages 1-4.
Solution: Redesign current fire alarms to include a water stimulus and voice alarm to help wake up children ages 1-4 during a fire emergency.

Entry Title: ***Help, I've Lost My Bus***
Coach's Name: Kendra Larmour
School Name: River Bluff Middle School
City: Stoughton
State: Wisconsin
Problem: Younger students having trouble finding their buses.
Solution: Color-code the buses with the same color bracelets that younger students would wear.



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