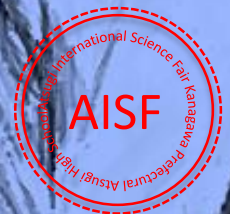


ATSUGI INTERNATIONAL SCIENCE FAIR 2019



Kanagawa Prefectural Atsugi High School offers an opportunity for students to make a presentation on their research. The aims of this fair are to enhance presentation skills, to motivate students to do their scientific research and to improve their international attitude through cultural exchange.

Participating school

7 Japan schools

Kanagawa Prefectural Atsugi High School
Kanagawa Prefectural Hiratsuka Secondary School
Yokohama Municipal Yokohama Science Frontier High School
Kanagawa Prefectural Tama Senior High School
Bunkyo Gakuin University Girls' Senior High School
Tokyo Metropolitan Toyama Senior High School
Chuo University Yokohama High School

14 Taiwan schools

Guoguang Laboratory School, NSYSU
I-Shou International School
National Experimental High School At Central Taiwan Science Park

National Nanke International Experimental High School
 National Pingtung Senior High School
 National Taitung Girls' Senior High School
 New Taipei Municipal Lin-kou Senior High School
 Taipei Municipal Dazhi High School
 Taipei Municipal Lishan High School
 Taipei Municipal Nei-Hu Vocational High School
 Taipei Municipal Yang Ming High School
 Taipei Municipal Yong Chun High School
 The Affiliated High School of National Chengchi University
 The Affiliated Senior High School of National Chi-Nan University

Schedule

AISF 2019 has two days. Day 1 is cultural exchange and Day 2 is science event.

Day 1: Cultural Exchange

March 12nd, 2019

Kanagawa Prefectural Atsugi High School

Program

Time	Activity
13:30-14:00	Checking Attendance @ School Gym <ul style="list-style-type: none"> Participants are guided to School Gym.
14:00-14:10	Opening Ceremony @ School Gym 1) Welcome Address by Principal of Atsugi High School 2) Welcome Address by a representative of Atsugi High School
14:10-14:45	Presentation (10 min each) <ul style="list-style-type: none"> Japanese Culture by Atsugi International Club Music Performance by Atsugi High School students
14:45-15:20	Talk session @ Classrooms <ul style="list-style-type: none"> Participants are to be separated into 5 groups
15:20	Closing @ each classroom <ul style="list-style-type: none"> Photo Session (close at 15:30)

Day 2: Science Fair

March 13rd, 2019

Kanagawa Prefectural Atsugi High School

Program

Time	Activity
10:00-10:50	Poster Presentation Part 1 Competition Presentation (Group A)

	Standard Presentation (Group A)
10:50-11:40	Poster Presentation Part 2 Competition Presentation (Group B) Standard Presentation (Group B)
11:40-12:50	Lunch Break
13:00-14:45	Oral Presentation
15:00-15:15	Closing Ceremony

Science Fair Award

Outstanding of Oral Presentation

Title
The Study of Garbage Sorting and Recycling Device with Neural Network
Semaphorin7a: investigate a new immune and neurodegenerative therapeutic target for neurodegenerative disease

Students Vote Award

Title
New Type of Natural Paints

List of Presentation

Oral Presentation

Title
Reason magnet repel tomatoes
Reuse of Inedible Part of Vegetables and Fruits
Volvox Shows the Environment of 50 Million Years Ago
Suppress Spiciness!
The Study of Garbage Sorting and Recycling Device with Neural Network
Semaphorin7a: investigate a new immune and neuroregenerative therapeutic target for neurodegenerative disease

Poster Presentation-Competition Section-

Title
The effect of shoe type on walking stability
Is Doraemon's magical gadgets realizable? ~4-D Pocket~
To make a skirt that hardly lift up.
Does a Baseball Go Farther by Upper Swing
Changes in behavior of parachute by attaching partitions
The correlation among Elnino,La nina affects and rainfall in Taiwan's winter
The effect of the El Nion and the La Nino on the typhoon path
Hualien earthquake b value changed
Discussion the Fan Blades' Structure of Homemade Wind Power Generator
Simulating the Best Electricity-Generating Condition of Piezoelectric Generator

Automatic Fruit Collector by using Image Recognition

A human-like bionic palm using machine learning to execute sign language

3D knuckle rehabilitation device combined with brain wave training and pneumatic muscle cylinder

Washing Device

The Mushroom Garden on The Green Brick

Improvement of Web Crawler Search Algorithm by Graph Theory Method

Implementation of Arrange 9!—Unveiling Brute-Force Attack

The Area and Circumference of Closed Curves in Tessellated Tile Pavement

Each Side Looks Alike: Properties of Three-View Drawing of Perfect Structures

Internal stress of Dutch tears

The secret of bubble living for a long time

Self Re-lighting Candle

Can we make noodles without using brine of the same elasticity as Chinese noodles?

Selective Colorimetric Sensing of Hg(II) ions using modified Silver Nanoparticles

Fluorescent Carbon Nanodots Prepared from Baked Onion and its Application in Bioimage

Preparation of Exfoliated Graphene Sheets in Water and Its Application as Antibacterial Material

Feasibility of Removal of Heavy Metal Ions from Laboratory Wastewater by Superabsorbent Polymer(SAP)

Searching for the Substance Adsorbing Copper Ions by the Adsorption Mechanism of Chitosan

Using chinese traditional herbs for dye-sensitized solar cell research

Protein-templated biomimetic synthesis of CuS for tumor-targeted photodynamic/photothermal therapy

Studies of the good effect in the non-edible part of vegetables

Removal of benzene using scallop shells

The jellying state of aiyu jelly in the condition of calcium ions

Investigation of conditions for methane gas production with chicken droppings

Making medicine which send away ants with oil from avocado

Let's Do BBQ with Garbage!!

Acorn Rescues The World -The Formation of Biodegradable Container

Making High Moisturizing Cream From Rice Bran

A study on black soldier flies' efficiency in the breakdown of kitchen waste

The Story Behind Shells: The Study of Hatching Rate and Swimming Behavior of Clam Shrimp Would vision affect the distinction of taste?

Application of aloe vera in sun protection

To Explore Adipose-Derived Stem Cells which was affected by Deep-Sea Water and vibration

Through mathematical and physical method to investigate coiling behavior Millipedes use as defense mechanism

To explore the effect of natural extract Gossypol-acetic acid on autophagy and its effect on Alzheimer's disease

Ocean current energy generation

The warning device for increaing the visible of guardrail near the slope

Fluorescent-tunable copper nanoclusters and their application in metal sensing for environment

Increase the rate of separation and sorting of PET bottle caps by using Behavioral psychology

Scuba diving depth display and group indicator diving device

By the Spread of Enterovirus 71 to Explore the Ideal Strategy of Medical Resource Allocation and Epidemic Prevention in Taiwan

Poster Presentation-Standard Section-

Title
Taking Wrinkles in a Word Book
Make Paper into Bioethanol
Soundproof by the Tent
Influence of Floor and Cleaning Tools on Collection Volume of Dust
Shock Absorber Using Potato Starch Solution
Examination of Fire Extinguishing Method Using Sound Waves
Oil Assistance for Plant Growth
Change of Lie's Extraction Amounts under some Conditions
Making Bread Using Natural Yeast
Reduction of Waste by Making Edible Containers
The Effect of a Growth Enviroment oo the Groeth of Plants in Aquaculture
Food poisoning prevention by Japanese pepper leaves
Study of Follow the instructions for Design by Behavioral Psychology
Research of impression using difference in appearance SNS
Relationship between Dish Color and Appetite
Prevention of Fish Bait Waste by Using Organ of Fish
The Influence of Culture Mediumon Penicillium Inhibition Zone
Purification of Water by Coffee Grinds
The Efficient Shape of Fan
Investigation of Making Transparent Glass
The 3 Seconds Law
Prptect Stuff with Dilatancy
Research on Strength of Paper Using Dietary Fiber
Rice Glue
Healthy Ingestion of Caffeine
Stuffed Toy Therapy Using Smiley Face
Improve Memory by Font Difference
Glass Making from Plant Waste
Make Paint from Organic Matter
Isolation of Cellulolytic Fungus and Reducing Cost of Paper
Improvement of Soil by Using Vegetable Garbage Ash
Improvement of Muds by Using Materials What are Low Chemical Vesistouce
Making Natural Green Glass
New Type of Natural Paints
How to Extract Hinokiol Easily
The Way of Improvement for Better Communication
Separation of Trash Using Psychological Effects of Color
Development Antibacterial Sheet

Let's Make to Prevent Ice Cream from Melting Quickly with Rice Flour

Make a Hard-to-break Smart Phone Case

Acorn Save People from Hunger Problems

The Relation between Moisturizing Capacity and the Type of Oil

Recycling of Foaming Polystyrene

Application of the Structure of Gecko ~Make a Studless Shoes~

Verification of Antioxidant Effect of Pine Needle

Make Starch Paste from Bread

Make Plastic from Milk

Color of Food and Predation Behavior

Making Delicious and Low-calorie Ice Cream

Relationship between Sugar and Viscosity of Jam

Possibility of Cardboards

Making Bio-ethanol from Used Paper

Invention of Propeller Capable of Generating More Wind Power

How to Leave Gym Earlier

An effect of the coffee grounds

The Relationship between Hue of Building and City Temperature

Making Red Colorings

More types of dyes

Make cocoa clear

A research for improvement of bone conduction earphone

Prevent avalanche in books

Let`s make safety paints

Generation by waste lighters

Ice Cream That Doesn't Melt

Producing bioethanol from *Alocasia odora*

Safty Insect Repellent

Make Sunscreen from Tea Leaves

Antibacterial of soy sauce brewing bacteria

Hard to dry rice cake

Vibration control using center of gravity

Reuse of Inedible Part of Vegetables and Fruits

Volvox Shows the Environment of 50 Million Years Ago

Suppress Spiciness!