Officers

Society for Analytical Chemists of Pittsburgh

Chair, .......................................................................................... Heather Juzwa
Chair-elect, ................................................................................. Susan K. Zawacky
Secretary .......................................................... Michelle Ward
Treasurer ................................................................................... Melinda R. Stephens
Immediate Former Chair .................................................. John A. Varine
Awards Dinner Committee
Chair ..................................................................................... Rita Windisch

Special Thanks to the following for their assistance in making 2014 Awards Dinner a successful evening:
Richard Danchik
Richard Greco
John Koczko
Fu-mei Lin
Fu-Tyan Lin
Virginia Naylor
Susan Zawacky

Administrative Assistant ........................................................ Valarie Daugherty

American Chemical Society, Pittsburgh Section

Chair, ...................................................................................... Amy Rupert
Chair-elect, .............................................................................. Mackenzie Speer
Secretary ................................................................................ Logan Miller
Treasurer ................................................................................... Angelica Andreoli
Secondary School Chemistry Contest Committee .......... Paul Johnson
National Chemistry Olympiad ................................................ Michelle Coffman

Photos will be taken of the Award Recipients after they have received their award as they come off of the podium.

All high school student award winners will receive a complimentary one-year subscription to Chem Matters courtesy of the SACP and ACS. The applications are available at the Registration desk.
Program

Invocation

Richard Danchik

Introduction:
Society for Analytical Chemist of Pittsburgh Chair........Heather Juzwa
American Chemical Society, Pittsburgh Section Chair........Amy Rupert
Pittsburgh Section Chair-elect..............................Mackenzie Speer

Presentations of Awards:

SACP AWARDS:
Science Outreach Committee Chairs................................Singh Manocha
Scholarship and Grants...........................................John Varine
Pittsburgh Conference Memorial National College Grants...........Heather Juzwa
50 Years Member Award........................................Heather Juzwa
Chair’s Award.....................................................Heather Juzwa

Science Outreach
PJAS Teacher Awards
PJAS Student Awards
Pittsburgh Regional School Science and Engineering Fair
SACP High School and Middle School Science Essay Contest
West Liberty University Regional Science Fair

Scholarship and Grants
College Chemistry Awards
Starter Grant
Undergraduate Analytical Research Program (UARP) Grant
College Chemistry Scholarships

ACS AWARDS:
50-Year and 60 Year ACS Membership Awards
PJAS Student Awards
PJAS Junior High Chemistry Award
Pittsburgh Section Chapters of ACS Student Affiliates
Pittsburgh Regional School Science and Engineering Fair
2014 Chemistry Contest
U.S. National Chemistry Olympiad

Closing Remarks and SACP Election Results

Society for Analytical Chemists of Pittsburgh

AWARDS

SCIENCE OUTREACH

Pennsylvania Junior Academy of Science

TEACHER AWARD
The SACP sponsors two Teacher Awards annually to an outstanding junior (grade 7-8) and senior (grade 9-12) high school teacher in the Pittsburgh area. Criteria used by the selection committee of the SACP are based on the number of first and second prize winning students sponsored by the teacher over the previous three Region 7 Pennsylvania Junior Academy of Sciences (PJAS) Meetings. Emphasis is placed on teachers who sponsor chemistry and chemistry related projects. The awards consist of a $500 award and a plaque. This year’s awards will be presented to the following teachers:

Grades 7-8       Susan Morgan, St. Elizabeth Elementary School
Grades 9-12      Brian Rose, Pittsburgh Science and Technology Center

STUDENT AWARDS
The SACP sponsors six annual awards to students presenting excellent chemistry or chemistry-related projects at the Region 7 meeting of the PJAS. An award is presented to the student in each of grades 7 through 12 receiving the highest score for their project. The Awards consist of a $300 grant to defray the cost of attending the statewide PJAS meeting.

STUDENT                             TEACHER
Timothy McClelland (7th Grade)       Chris Sparacino
                                      St. Sebastian Elementary School
Natalie Christel (8th Grade)          Nancy Snyder
                                      St. Alphonsus School
Mihir Garimella (9th Grade)           Gregory Schubert
                                      Fox Chapel Area High School
Shanelle Fernando (10th Grade)        Bruce Allen
                                      North Allegheny High School
Emily Walker (11th Grade)              Marion Carson
                                      Riverview High School
Angela Santucci (12th Grade)          Loraine Benedik
                                      Oakland Catholic High School
This year marks the 75th anniversary of the Science Fair. The SACP as a professional society is a sponsor of the Fair and grants six special cash awards. The selection of winners is based on originality, creativity, and organization as applied to the composition and structure of matter. Special emphasis is placed on general science at the junior high level and analytical chemistry at the senior high level.

**Senior Division**

**Student**
Emily Walker

**Teacher**
Marion Carson

*Riverview Jr/Sr High School*

“A Chlorinity Analysis of Ocean Water”

Thomas Pascucci

**Teacher**
Donald Orlowski

*Freeport Senior High School*

“Which Temperature Produces the Strongest Crystalline Sugar Structure?”

**Intermediate Division**

**Student**
Jacob Lowry

**Teacher**
Linda Cessar

*Providence Heights Alpha School*

“Fast-Tracking a Way to Pain Relief”

Indra Alagar

**Teacher**
Mary Beth Alagar

*Home School*

“Potency of Antioxidants Among Various Beverages”

Bo Yu Liang

**Teacher**
Jonathan Riddle

*Sewickley Academy*

“Comparison of 4 Types of Light Bulbs”

**Junior Division**

**Student**
Emily Mullen

**Teacher**
Rita Turchetta

*St. Mary of Assumption Glenshaw*

“Potato Power”

**SACP High School and Middle School Science Essay Contest**

Each year the SACP sponsors an essay competition in which students in the tri-state area are asked to write an essay of no more than 325 words on a specific topic in science. This year’s topics were: “Do the economic benefits in terms of jobs and energy outweigh the environmental risks of hydraulic fracturing (fracking) used in the production of natural gas?” (High School) and “What one scientific innovation or discovery most significantly impacts the life of American teenagers today? Discuss either its history or scientific development and how it affects your daily life.” (Middle School). The High School and Middle School Essays were each judged by a committee of ten SACP members on the basis of content, creativity, composition, and adherence to the rules of the contest. Only two entries were permitted from each school. Thirteen essays in each category were selected for monetary awards (three top awards and ten honorable mentions). The first, second and third place winners are:

**High School First Place Award Winner**

**Teacher**
Terrance Ahlin

*Baldwin High School*

**High School Second Place Award Winner**

**Teacher**
Gina Famiglietti

*Seneca Valley High School*

**High School Third Place Award Winner**

**Teacher**
Konrad Urban

*Fox Chapel Area High School*

**Middle School First Place Award Winner**

**Teacher**
Thomas Ahlin

*Home School*

**Middle School Second Place Award Winner**

**Teacher**
Rohan Chalasani

*Fox Chapel Area High School*

**Middle School Third Place Award Winner**

**Teacher**
Suvir Mirchandani

*Fox Chapel Area High School*

The first place High School and Middle School award winner’s essays can be located on the SACP website at the following link: [http://www.sacp.org/science-fairs-competitions/](http://www.sacp.org/science-fairs-competitions/)
West Liberty University Regional Science Fair

The West Liberty University Regional Science Fair has provided mathematics and science students in grades 6 through 12 an opportunity to present the results of their scientific efforts for 56 years. The fair includes students from public and private schools in Hancock, Brooke, Ohio, Marshall, and Wetzel counties in West Virginia and Jefferson and Belmont counties in Ohio. This Fair, like the Carnegie Science Fair, sends grand prize winners to the International Fair.

Senior Division Winner

Ethan Umstead
Rebecca Sticher
*Are Antacids All They Are Chalked Up to Be?*

Hundred High School

Junior Division Winner

Jack Stryker
Adrianna Wolfe
*Antioxidants: How Do They Measure Up*

Hundred High School

SCHOLARSHIPS AND GRANTS

COLLEGE CHEMISTRY AWARDS

The SACP has honored outstanding students in Chemistry in the tri-state region since 1961 with its College Awards program. Twenty-nine students and colleges will be recognized this year. Each recipient will be presented with a check for $500 and a certificate. The college library fund will receive a check for $300 and a commemorative plate with the student’s name. The Chemistry Department will receive an engraved name plate to add to the plaque recognizing prior SACP award winners. We are proud of the successful careers of those who have received this award in the past and wish our award recipients good luck in their future endeavors.

<table>
<thead>
<tr>
<th>School</th>
<th>Award Recipient</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Akron</td>
<td>A. J. Marino</td>
</tr>
<tr>
<td>Allegheny College</td>
<td>Carolyn Shetter</td>
</tr>
<tr>
<td>California University of PA</td>
<td>Justin Kyle Antolin</td>
</tr>
<tr>
<td>Carlow University</td>
<td>Nicole Passarella</td>
</tr>
<tr>
<td>Carnegie Mellon University</td>
<td>Abigail E. Burton</td>
</tr>
<tr>
<td>Chatham University</td>
<td>Maike Blakely</td>
</tr>
<tr>
<td>Clarion University of PA</td>
<td>Kristin Day</td>
</tr>
<tr>
<td>Duquesne University</td>
<td>Katherine Wozniak</td>
</tr>
<tr>
<td>Edinboro University of PA</td>
<td>Edward M. Culbertson</td>
</tr>
<tr>
<td>Gannon University</td>
<td>Erica Jean Dougherty</td>
</tr>
<tr>
<td>Geneva College</td>
<td>Ian MacKenzie</td>
</tr>
<tr>
<td>Gettysburg College</td>
<td>Rebecca Sponenberg</td>
</tr>
<tr>
<td>Grove City College</td>
<td>Jennifer M. Toth</td>
</tr>
<tr>
<td>Indiana University of PA</td>
<td>Teresa Dierks</td>
</tr>
<tr>
<td>Pennsylvania State University</td>
<td>Xinran Feng</td>
</tr>
<tr>
<td>University of Pittsburgh</td>
<td>Steven C. Taylor</td>
</tr>
<tr>
<td>Saint Francis University</td>
<td>Robert Hodgson</td>
</tr>
<tr>
<td>Saint Vincent College</td>
<td>Vincent Anto</td>
</tr>
<tr>
<td>Seton Hill University</td>
<td>Amanda Dumi</td>
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<tr>
<td>Shippensburg University of PA</td>
<td>Caleb S. Louheed</td>
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<tr>
<td>Slippery Rock University of PA</td>
<td>Samantha E. McCormick</td>
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<tr>
<td>Thiel College</td>
<td>Emily J. Petrak</td>
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<tr>
<td>Washington &amp; Jefferson College</td>
<td>Morgan K. Morelli</td>
</tr>
<tr>
<td>Waynesburg University</td>
<td>Elizabeth Le Cain</td>
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<tr>
<td>Westminster College</td>
<td>Julie C. Rice</td>
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<tr>
<td>West Virginia University</td>
<td>Madeline L. Vandeveuve</td>
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<tr>
<td>West Virginia Wesleyan College</td>
<td>Caitlin Cobern</td>
</tr>
<tr>
<td>Wheeling Jesuit University</td>
<td>Anthony J. Schnelle</td>
</tr>
<tr>
<td>Youngstown State University</td>
<td>Michael Macinga</td>
</tr>
</tbody>
</table>

Society for Analytical Chemists of Pittsburgh

J. Marie Plessman, President
R. C. Rahn, Past President
E. E. O’Leary, Ex-Officio Secretary
H. K. M. Harris, Treasurer
Starter Grant

This year marks the presentation of the 36th Annual Analytical Chemistry Starter Grant Award sponsored by the SACP. The purpose for this $40,000 grant is to encourage high-quality innovative research and to promote the training and development of graduate students in the field of analytical chemistry. Eligible applicants are assistant professors who have demonstrated a financial need, proposed research of considerable scientific merit with the likelihood of making a significant positive impact on both graduate students and the field of analytical chemistry, and accepted college or university appointments after December 31, 2011.

Award Recipient School
Kerri A. Pratt, Ph.D. University of Michigan
“Chemical Characterization of Arctic Atmospheric Particles”

SACP College Chemistry Scholarships

These awards consist of renewable, four year scholarships, one $20,000 scholarship ($5,000 per year for 4 years) and two $12,000 scholarships ($3,000 per year for 4 years). The awards are granted after a thorough evaluation of the students’ high school academic records, written essay, and performance on the SAT and the Annual ACS Secondary School Chemistry Contest. It is the SACP’s intent to promote the interest of the students toward a career in Chemistry, or a related field.

Student ($20,000 Scholarship) Teacher
Derek Wang Matthew Davis
North Allegheny Senior High School

Student ($12,000 Scholarship) Teacher
Michael Justin Becich Matthew Davis
North Allegheny Senior High School

Student ($12,000 Scholarship) Teacher
Benjamin Catalano Angela Akins
Greensburg Central Catholic

Undergraduate Analytical Research Program (UARP) Grant

The Society for Analytical Chemists of Pittsburgh (SACP) has established an annual grant of up to $10,000 (1) to promote high-quality, innovative, undergraduate research in the field of Analytical Chemistry and (2) to train and develop the research abilities of undergraduate students in the field of analytical chemistry. Chemistry faculty at U.S. colleges and universities not having a graduate program in the chemical sciences were eligible to apply.

Award Recipient School
Kathryn D. Kloeper, Ph.D. Mercer University
“Discovery of Robust Boisurfactants for Diverse Agricultural and Environmental Applications”

Pittsburgh Conference Memorial National College Grants Program

2014 Award Recipients

Aiken Technical College - Aiken, SC
Ashland University - Ashland, OH
Coe College & Cornell College - Cedar Rapids, IA
Gwynedd Mercy University - Gwynedd Valley, PA
Hampshire College - Amherst, MA
Keystone College - La Pume, PA
Northcentral Technical College (NTC) - Wausau, WI
Roanoke College - Salem, VA
Saint Xavier University - Chicago, IL
The College of Wooster - Wooster, OH
University of the Sciences - Philadelphia, PA
Valparaiso University - Valparaiso, IN
Wilmington College of Ohio – Wilmington, OH
The SACP Chair’s Award is made for outstanding and continued contributions toward the goals and mission of the society. Each recipient receives a recognition plaque. In addition, the SACP will make a $1500 donation in honor of the recipient who supports the Society’s mission. The first Chair’s Award was presented in 2000.

Each year the American Chemical Society honors those individuals who have achieved 50 and 60 years of continuous membership. Each 50-year and 60-year member receives a certificate and badge for admission to any National ACS Meeting.

The following 10 Members of the Pittsburgh Section celebrate 50 years of membership in the American Chemical Society during 2014:

Mr. David W. Badger  
Mr. David L. Bates  
Dr. Joseph Harris Carney  
Mr. Robert Lewis Eppley  
Dr. Anthony Gutierre Fonseca

The following 7 Members of the Pittsburgh Section celebrate 60 years of membership in the American Chemical Society during 2014:

Dr. Armand F. Lewis  
Mr. James A. Petrocelli  
Mr. Martin Sax

The newly named Fifty-Year and Sixty-Year Members will be honored at the ACS Central Regional Meeting in the fall of 2014.
ACS PJAS Student Awards
The Pennsylvania Junior Academy of Science (PJAS) 80th Annual Region 7 competition was held on Saturday, February 1, 2014 at Duquesne University. A panel of ACS professionals judged the high school chemistry and biochemistry event. Each winner received the Dr. James Manner plaque from the Pittsburgh Section of the ACS titled “Outstanding Achievement in Chemistry and Biochemistry” and a check for $100.

Student 
Jahrik Kurukulasuriya ........................................... Heather Foster
Pittsburgh Allderdice

Victor Mao ................................................................. Bruce Allen
North Allegheny

Elianna Paljug .................................................. Suzanne Miller
Fox Chapel

Angela Santucci ..................................................... Loraine Benedik
Oakland Catholic

Emily Walker ........................................................ Marion Carson
Riverview

PJAS Junior High Science Awards

Student 
Timothy McClelland ........................................... Christopher Sparacino
St. Sebastian School

Gracie Walters .................................................. Linda Cessar
Providence Heights Alpha

Anne Ferry .......................................................... Cathy Borecky
St. Thomas More

Natalie Christel .................................................. Nancy Snyder
St. Alphonsus

Michael Bushnell .............................................. Carole Wojciechowski
Carlow Campus School

Hannah Polito ................................................ Rita Turchetta
St. Mary of the Assumption

Peter Wagstaff .................................................. Carole Wojciechowski
Carlow Campus School

Jonathan Russell .............................................. Christine Salvi
Christ the Divine Teacher

Victoria Viola .................................................. Cathy Borecky
St. Thomas More

Margaret Gerlach .............................................. Carole Wojciechowski
Carlow Campus School

Awards to Pittsburgh Section Chapters of the Student Affiliates of the ACS

Outstanding Award
Duquesne University
Seton Hill University
Waynesburg University

Commendable Award
Saint Francis University

Honorable Mention
Carlow University
Saint Vincent College

Green Chemistry
University of Pittsburgh
Saint Francis University

Pittsburgh Regional School Science and Engineering Fair
At the 75th Pittsburgh Regional School Science and Engineering Fair held on Friday, March 28, 2014 at Heinz Field, the Pittsburgh Section of the American Chemical Society presented two awards in the field of Chemistry.

Senior Awards

Student 
Jonathan Mulick .................................................. Linda McLemore
Bishop Canevin High School

“Toxicity of Hydraulic Fracturing Wastewater”

Intermediate Award

Sanjana Harish .................................................. Eva Malecki
Dorseyville Middle School

“Does Changing pH Levels in a Microbial Fuel Cell Increase Electricity?”


**2014 Chemistry Contest**

Each year since 1945, the Pittsburgh Section of the American Chemical Society has sponsored a contest for secondary schools to recognize outstanding achievement by the students and their teachers as well as encouraging interest in chemistry among school students. The contest recognizes three categories: first-year students in large schools, first-year students in small schools, and second-year students. The contest is also used to qualify students interested in participating in the International Chemistry Olympiads and to identify students for scholarships. This year 130 students from 20 schools competed for prizes and scholarships. First place in each category is awarded $250, second place $150, third place, $100.

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**Pittsburgh Section, American Chemical Society**

**2014 Secondary School Chemistry Contest Winners**

<table>
<thead>
<tr>
<th>PRIZE</th>
<th>STUDENT</th>
<th>SCHOOL</th>
<th>TEACHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category S - First Year Chemistry, Large Schools</td>
<td>Zhen Yu Ding</td>
<td>Mount Lebanon</td>
<td>Susan Meer</td>
</tr>
<tr>
<td>First</td>
<td>Michael Nastac</td>
<td>Upper Saint Clair</td>
<td>Dominic Frollini</td>
</tr>
<tr>
<td>Second</td>
<td>Eric Lowden</td>
<td>Montour</td>
<td>Christina Frank</td>
</tr>
<tr>
<td>Third</td>
<td>Akshay Prasadan</td>
<td>Upper Saint Clair</td>
<td>Dominic Frollini</td>
</tr>
<tr>
<td>Category S - First Year Chemistry, Small Schools</td>
<td>James Nassur</td>
<td>Greensburg Central Catholic</td>
<td>Angela Akins</td>
</tr>
<tr>
<td>First</td>
<td>Kahmil Shajihan</td>
<td>Sewickley Academy</td>
<td>Susan Zawacky</td>
</tr>
<tr>
<td>Second</td>
<td>Christine McCullough</td>
<td>Greensburg Central Catholic</td>
<td>Angela Akins</td>
</tr>
<tr>
<td>Category D - Second Year Chemistry</td>
<td>Ishan Levy</td>
<td>Pittsburgh Allderdice</td>
<td>Sally Martin</td>
</tr>
<tr>
<td>First</td>
<td>Nancy Lu</td>
<td>Mount Lebanon</td>
<td>Mark Kernion</td>
</tr>
<tr>
<td>Second</td>
<td>Michael Becich</td>
<td>North Allegheny</td>
<td>Matthew Davis</td>
</tr>
<tr>
<td>Third</td>
<td>Solomon Astley</td>
<td>Hempfield</td>
<td>Joanne Hervol</td>
</tr>
<tr>
<td>Third</td>
<td>Ian Harris</td>
<td>Mount Lebanon</td>
<td>Mark Kernion</td>
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**ACS Pittsburgh Section Nominees to The United States National Chemistry Olympiad**

The Pittsburgh Section of the American Chemical Society has sponsored a program to select nominees to the United States Olympiad for the last thirty years. Each participating high school could nominate two students who then wrote the Pittsburgh Section's Annual Chemistry Contest exam for second-year students of chemistry. The test results were then used to select students who took the National ACS Olympiad Exam at Duquesne University on April 26, 2014. From the National Exam, twenty students are invited to a Study Camp in June at the U.S. Air Force Academy in Colorado. The top four students at the study camp will travel to Hanoi, Vietnam in July to compete in the International Chemistry Olympiad (IChO).

In the past, the Pittsburgh Section of the ACS has had many students attend the Study Camp as well as participate in the final International Chemistry Olympiad. Seth Brown of Taylor-Allderdice High School in 1984 and won silver, David Hutz of Fox Chapel High School in 1993 and won silver, Zhe Lu of Gateway High School in 2000, Jongjin Kim of North Allegheny High School in 2004, Konstantin Borisov of North Allegheny High School in 2011 to Ankara, Turkey and won a gold medal, and Derek Wang of North Allegheny High School in 2013. For 2014 the Pittsburgh Section selected nominees who wrote the National Exam. The following nominees and their teachers are now being recognized for participating in the National Exam program at this SACP/ACS Awards dinner ceremony.

<table>
<thead>
<tr>
<th>STUDENT</th>
<th>SCHOOL</th>
<th>TEACHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nathan Walker</td>
<td>Burrell High School</td>
<td>Mrs. Catherine Rudolph</td>
</tr>
<tr>
<td>Rohan C. Shah</td>
<td>Gateway High School</td>
<td>Mr. Timothy Lattanzio</td>
</tr>
<tr>
<td>Solomon Astley</td>
<td>Greensburg Central Catholic</td>
<td>Mrs. Joanne Hervol</td>
</tr>
<tr>
<td>Hannah Loy</td>
<td>Hempfield Area High School</td>
<td>Mrs. Joanne Hervol</td>
</tr>
<tr>
<td>Michael Becich</td>
<td>North Allegheny High School</td>
<td>Mr. Matthew Davis</td>
</tr>
<tr>
<td>Songela Chen</td>
<td>North Allegheny High School</td>
<td>Mr. Matthew Davis</td>
</tr>
<tr>
<td>Derek Wang</td>
<td>North Allegheny High School</td>
<td>Mr. Matthew Davis</td>
</tr>
<tr>
<td>Brian Lovasik</td>
<td>North Hills High School</td>
<td>Mr. Frederick Ebert</td>
</tr>
<tr>
<td>Helena Varys</td>
<td>North Hills High School</td>
<td>Mr. Frederick Ebert</td>
</tr>
<tr>
<td>Joshua Peles</td>
<td>Penn-Trafford High School</td>
<td>Dr. Helen Loughner</td>
</tr>
<tr>
<td>Guillaume Shippee</td>
<td>Quaker Valley High School</td>
<td>Mrs. Patricia Colangelo</td>
</tr>
<tr>
<td>Andrew Warburton</td>
<td>Quaker Valley High School</td>
<td>Mrs. Patricia Colangelo</td>
</tr>
<tr>
<td>Jacob Nasiadka</td>
<td>Shaler Area High School</td>
<td>Mrs. Rena Murphy</td>
</tr>
<tr>
<td>Lea Wenger</td>
<td>Shaler Area High School</td>
<td>Mrs. Rena Murphy</td>
</tr>
</tbody>
</table>
Menu

Tossed Salad

Chicken Piccata

or

Stuffed Portobello Mushroom

Penne Pasta with Marinara Sauce

Seasonal Vegetable Medley

Cheesecake with Fruit Topping

Coffee  Tea  Iced Tea