Below are the submissions CLASSE received for the Research Division Ice Cream Challenge.

Good luck to all!

The “Big Bang”
Virginia Bizzell, Kathy Dedrick, Kriss Eckenrode, and Laura Houghton
(under the guidance of Ernie Fontes)

White chocolate sorbet
Fudge ripples
Strawberries, blackberries, and a splash of cinnamon

White chocolate sorbet with fudge ripples represent the magnetic field. Strawberries represent positrons. Blackberries represent electrons. Splash of cinnamon represents the spray of particles

When an electron and positron collide, a miniature “Big Bang” results from their annihilation and produces a spray from two to thirty particles flying off in all directions.

CHESS (Cornell High Energy Sinful Secret)
Marian Szebenyi

Strawberry/vanilla swirl
Peanuts
M&M’s
Reese’s Pieces

Strawberry/vanilla – red/white is for Cornell
Nuts provide high energy needed to operate the CESR ring to generate X-rays. The candy coatings of M&M’s and Reese’s Pieces hide the sinfully rich fillings, to be revealed when the eater bites into them, as the X-rays of CHESS reveal the hidden secrets of materials of many sorts.

Classy Atomic Crunch
Abbie Morgan

Dark chocolate ice cream
Chocolate and white chocolate chips
Chocolate covered Heath Bar bits
A marshmallow swirl

Black and white is often used to represent something with class. This black and white ice cream represents CLASSE. The chocolate chips and white chocolate chips represent protons and neutrons, and the chocolate covered Heath Bar bits represent electrons; CLASSE deals with these subatomic particles in many fashions. The marshmallow swirl represents the motion of these particles in accelerators and the research that takes place in Cornell’s own accelerator.
**Crystals and Beams**  
Marian Szebenyi

Orange sherbet base  
Chocolate flakes  
Mini marshmallows

The orange sherbet symbolizes the brightly glowing beams of X-rays used at CHESS. The chocolate flakes represent the silicon crystals used to define the X-ray wavelength and focus the beams, while the marshmallows stand for the crystals of proteins (and other things) whose internal structures are determined using CHESS.

**Molly-Cue**  
Virginia Bizzell, Kathy Dedrick, Kriss Eckenrode, and Laura Houghton

French vanilla ice cream  
Cherries, blueberries  
Macadamia nuts  
Chocolate sprinkles

French vanilla represents the wide array of users of the facility. Cherries and blueberries represent atoms. Macadamia nuts represent other atoms. Chocolate sprinkles bond atoms together.

**Quark ‘n Berry**  
Ritchie Patterson, Neil Sherwood, and Peggy Steenrod

Vanilla ice cream  
Mini M&M’s (6 colors)  
Black Raspberry Swirl

Our Lab studies quarks, which are represented by the M&M’s. The six colors represent the six flavors of quarks: up, down, charm, strange, top and bottom. It’s up to you to figure out which M&M is which!

**Synchrotron Swirl**  
Liz Smith and Jeff White

Coffee flavor ice cream  
Dark and white chocolate chunks swirled in

The need for coffee is well documented due to the 24 hrs/day, 365 days/year operations. The dark and white chocolate chunks swirled in represent the particles of matter and antimatter circulated in the ring.