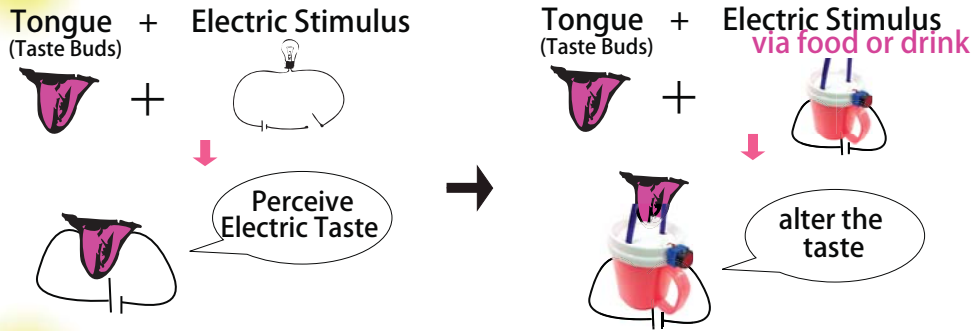


Augmented Gustation using Electricity

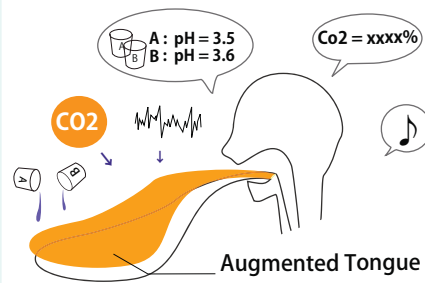
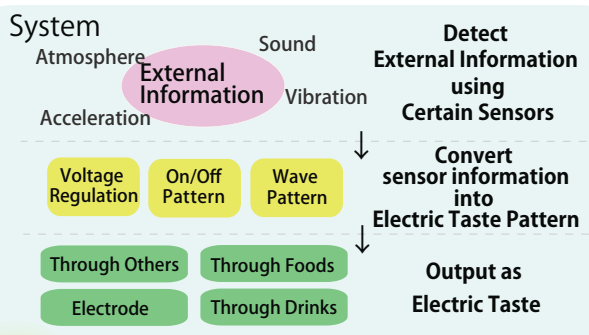
Hiroshi Nakamura, Homei Miyashita (Meiji Univ / JST CREST)

What is "Electric Taste" ?



Augmented Gustation using Sensors

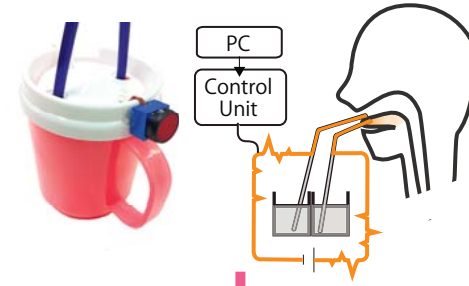
We can discern the taste of exhaled air and inhaled air
distinguish slight difference in nutrient component



Apparatuses

Apparatuses to change taste by creating electric taste via the use of drinks

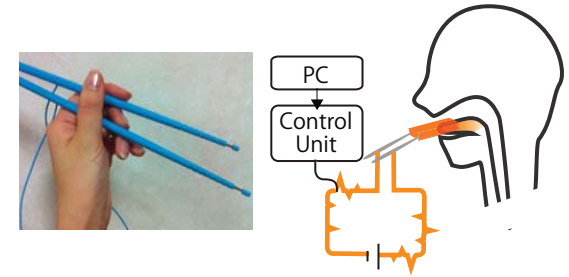
The circuit of this system is completed when the user drinks



An electric contact is connected between the straw and the mouth

The tongue picks up the electrical stimulus

To use food as an electrical conductor



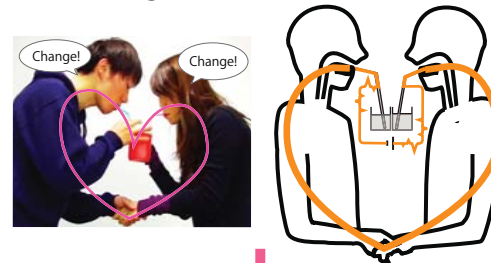
Insert positive and negative electrodes to the same plate

Electric current is carried between the tongue and the food

Communication by Changing Taste

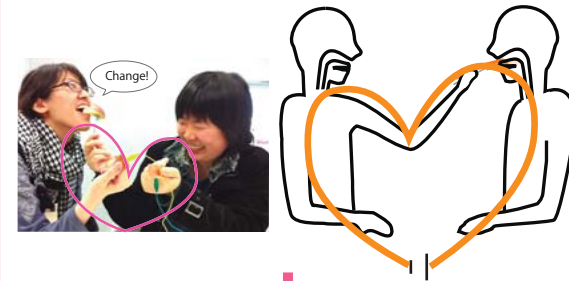
We use this system as a communication tool for drinking together and body contact between persons

In the case of two persons each having one straw in their mouth



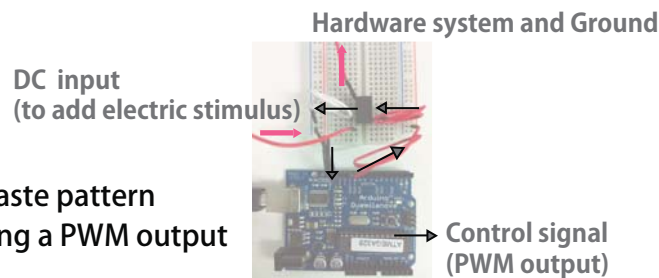
shaking hands causes electricity to flow
resulting in the change in taste

With a chopsticks/fork type of apparatus



when one person helps the other to eat
the taste changes by the electric current that flows through the human body

Generation of Electric Taste Pattern



We can adjust the electric taste pattern and the output voltage using a PWM output