

## Cooking-up-APAS-cakes-for-a-Peaceful-Development-of-Space-Habitat

Guy Pignolet, Senior Space Educator, Reunion Island  
guy.pignolet@science-sainte-rose.net

### Abstract

Planet Gaia is pregnant, just about to give birth to baby micro-planets in the Solar System, with the help of Humankind who is developing the technology to do so, but not yet aware of what it is doing, still spending most of its energy waging stupid wars and obsolete finance games. Time has come to engage in our renaissance with new activities.

Central in our human activities is feeding ourselves, and cooking our food, all over Planet Earth. There are already cultural connections between cooking and technology, for instance with the Paris-Brest cake, created in 1891 by pastry chef Louis Durand, at the request of Pierre Giffard, founder of the Paris-Brest-Paris cycle race. The idea was to design a pastry as a tribute to this endurance event. Hence the circular shape of the Paris-Brest cake, reminiscent of a bicycle wheel.

In 1975, Vladimir Syromiatnikov stopped the Cold War with the Apollo-Soyuz encounter and today, in their kitchen, cooks of the all cultures in the whole world could make cakes in the shape of the symbolic APAS docking system, as a tasty artful way to tell families, friends, and their communities that time has come for the industries of all nations to unite to prepare our future.

The view and the taste of the APAS Cake for peace could engage space and defense industries in all countries of our world to join up to manufacture together the first babies of planet Earth, like Island Zero of Jerry Stone and Volodia Ring of Reunion Island Space Initiative.



### 1 – Planet Earth is pregnant

Gaia, our planet Earth, is a complex living being, born from a Big Bang that dates back more than 13 billion years ago, and it is a child of a third generation star which is our Sun. Gaia was formed some four and half billion years ago from the accretion of ashes and meteorites ejected by the Sun. Following the collision with the Theia proto-planet, it became the Earth-Moon double planet that we know today. Probably following an insemination by pre-biological complex molecules of extra-terrestrial origin, primitive forms of life began developing in the planetary ocean, until about four billion years ago when LUCA, Last Universal Common Ancestor, the first living cell, was formed. LUCA is at the origin of all the present cellular living forms on Earth, mushrooms, plants and animals that cover today the surface of planet Earth. The cellular life first developed in the ocean, then, some five hundred million years ago, plants and animals came out of the water to conquer emerged land, evolving into a great diversity of species, until the end of the dinosaurs, 66 million years ago, killed by the impact of a 10 km asteroid in what is known today as the Gulf of Mexico.

After the disappearance of the dinosaurs, of which birds are the only survivors, the mammals had the opportunity to develop, until the emergence of several human species in the last few hundred thousand years. For the last ten thousand years, since the invention of agriculture that gave birth to villages and cities, and then the invention of writing, the evolution of mankind has become explosive, until today with the very rapid emergence of the digital civilization. Homo sapiens has recently been able to exit planet Earth into the solarian outer space since the last fifty years. The evolution of Homo Sapiens, a species much more aggressive than our Neanderthalian ancestors, is causing much more major problems to Gaia than any other species, with overpopulation, energy questions and a crisis of resources. However, from the angle of mother Earth as a live being, there is probably a relationship between Gaia and the humans that is similar to what exists between each individual human and its gut micro-biota. We live in good cooperation with that kilogram of useful friendly bacteria in our body. Seen from that angle we may imagine that the major series of crisis that planet Earth is currently experiencing may compare to the pre-birth labor contractions. Gaia is pregnant, and its human micro-biota will help delivery of baby micro-planets into the Solar System.

## 2 - Feeding ourselves and cooking our food

After mastering the fire a few hundred thousand years ago, our early ancestors began cooking their food, made mostly of plants and small animals, to make it easier to eat, to digest and to assimilate. Then agriculture and settlements developed some ten thousand years ago, leading to villages, cities and modern industries, but cooking food in various ways also took an increasing importance in the development of human daily activities of life.



As a specialty somewhat apart from basic feeding, making pastry appeared some seven thousand years ago in Greece in the form of balls made of wheat, honey and milk, to make offerings to the various gods and deities invented by the human social cultures. But it is much later, in the 16th century that cakes became a usual complement for the good meals that were prepared for the kings and the nobility, after the arrival of chocolate in Europe.

In 1821 the famous French chef Antonin Careme invented both the cook's hats and the custard slice millefeuille cakes which were the beginning of constructed complex pastry. There have been many kinds of specialty cakes that have become famous, but what is of interest for us, some were inspired by the evolving industrial technology.

During the second half of the 19th century, in Paris, France, Pierre Giffard was a famous journalist interested by the rapid development of new transportation technologies, railway, automobile, and especially bicycle in which he saw a replacement for the horses that had been the

major mode of transport for people over so many centuries since early antiquity. To promote bicycle, in 1891, Pierre Giffard organized the first Paris-Brest-Paris cycle race, and to help the promotion, he asked his friend the pastry chef Louis Durand to create a circular cake in the shape of a bicycle wheel. In 1909, Louis Durand expanded the fabrication of the Paris-Brest cake in his own pastry shop and made it into a world symbol of French pastry cooking.



In Reunion Island, a rolled cake called Chemin-de-fer or railway cake was created in the same spirit as the Paris-Brest, as another type of cake inspired by technology. and it has become popular. When cut, the slices resemble the wheels of the train that used to link coastal cities in Reunion.

### 3 – In 1975 the Apollo-Soyuz Test Project

The most recent evolution of life in our local part of the universe is that during the last few decades of years the human children of planet Earth have gained access to outer space in the whole Solar System. Currently they do it mostly for the wrong reasons of aggressive competition and wars between various groups of people around the planet. But this comes from obsolete decisions made by immature crazy politicians and industry leaders that have not yet caught up with the developments of culture and civilization done by brilliant and visionary technical individuals.



When in the 1940's Wernher von Braun tested the first V2 weapon he made at the request of his government, on the tail of the rocket he painted a picture of the Moon to show what were his own personal goals. Thirty years later, in 1975, after Americans and Soviets had competed to put their feet on the Moon which is our celestial twin planet, Vladimir Syromiatnikov, a Russian engineer who did not like wars, arranged with similarly peace-minded USA colleagues the famous Apollo-Soyuz hand-shake in orbit between Alexei Leonov and Thomas Stafford. Since the usual male-female connection technology was not politically acceptable for mating the two spacecraft,

Vladimir Syromiatnikov invented the androgynous APAS docking system which later became a new standard and was used twenty years later at the end of the 1990's for docking the US Space Shuttle with the Russian MIR space station, as a preparation for the joint construction, also done with the European and the Japanese industries, of the ISS International Space Station.

#### 4 – The view and taste of APAS Cakes for peace

To achieve the success of the Apollo Soyuz Test Project in 1975, organizations of countries that had been enemies during the Cold War had eventually cooperated together peacefully. This very positive approach was continued a quarter of a century later for the construction of the ISS which is still in operation today, with space people telling their governments to stop their fightings.

Yet there are currently dozens of stupid wars around the world, that endanger the future of planet Earth, and possibly the very existence of the human civilization. This global disorder has to stop to give mankind the chance to survive, but the national governments and the top managers of the major financial businesses are not at all ready to change their decision making behavior, because while causing destruction and everyday living difficulties for most of the populations of the world, the current policies are the major source of employment, and profit for a greedy minority.

However it is clear that today the so-called defense organizations that are manufacturing the destructive systems used to make wars are also the very companies that master the tools and the technologies for space activities and the construction of the upcoming settlements in the Earth-Moon environment and in the whole Solar System.

Since the political and industrial leaders, as well as the major mass media carry obsolete ideas, and are not in the mood for the necessary organizational behavior changes, evolution in the global culture has to be driven via other channels by the root populations of the world, through new ideas growing in their everyday life where the most fundamental need and activity, everywhere, is food.

In 1975, Vladimir Syromiatnikov stopped the Cold War with the Apollo-Soyuz encounter and today, in their kitchen, cooks of the all cultures in the whole world can make cakes and pies in the shape of the symbolic APAS docking system as a tasty artful way to tell families, friends, and their communities that time has come for the industries of all nations to unite to prepare our future. The days can be very soon when the people who are well qualified in space and defense industries will understand that they can stop bad destructive activities and engage in constructive work with their colleagues of all countries. Their brains will tell them that cooking together APAS cakes in space will be much more enjoyable than the horrors of fighting all kinds of wars again each other.



The view and the taste of the APAS Cakes for peace may engage space and defense industry people of all countries in the world to join up to manufacture together the first babies of planet Earth Gaia, like Island Zero of Jerry Stone and Volodia Ring of Reunion Island Space Initiative.