culinary world. National Sandwich Day is a fun reminder to celebrate flavour, variety, and the joy of a well-made meal.

ational Sandwich Day, celebrated on November 3, honours one of the world's most versatile and beloved foods: the sandwich. From classic peanut butter and jelly to gourmet creations with artisanal breads, fresh vegetables, and savory fillings, sandwiches are a culinary staple that caters to all tastes and occasions. The day encourages people to get creative, try new recipes, or simply enjoy their favourite sandwich with family and friends. Beyond being convenient and delicious, sandwiches reflect cultural diversity and innovation in the

Around the walls of the sanctum of

temple there are about 50 sculptural

the Gangaikonda Cholapuram

reliefs of which the image representing Shiva garlanding a

devotee is one of the most

The Koranganatha Temple

Ranganatha.

(Srinivasanallur, Tiruchirappalli, Tamil

Nadu, India) dedicated to the god

tum of the Gangaikonda

Cholapuram temple, there are about

50 sculptural reliefs of which the

image representing Shiva garland-

prominent. In this relief, Shiva,

with Parvati besides him, hands

down a garland of flowers to mark

his victory to a diminutive seated

figure of the king Rajendra Chola I.

राष्ट्रदुत

Beyond EPICA

Indian Scientists help unearth 1.2-Million-Year-Old Ice Core in historic Antarctic Drill



a landmark achievement for climate science, Indian working alongside an international team, have successfully drilled nearly 2 miles (2.800 meters) beneath the Antarctic ice sheet to extract

an ice core, estimated to be 1.2

million years old, one of the oldest ever recovered. The project, part of the ambitious Beyond EPICA (European Project for Ice Coring in Antarctica) mission, is based at Little Dome C, one of the coldest and most remote locations on Earth, approximately 34 kilometers from Concordia

history," said Dr. Rajeev

Sharma, a senior glaciologist

with India's National Centre

for Polar and Ocean Research

(NCPOR), "With it, we can

look back over a million years

to understand how natural

changes in greenhouse gas

levels influenced Earth's cli-

up to 4.5 meters long. The

work was painstaking and

precise: the drill passed

mate cycles.

A Window Into Earth's Distant Past

he core contains ancient air bubbles and climate data from a time before modern humans existed, offering scientists a chance to study atmospheric conditions long before the current inter-

"This ice core is a frozen archive of our planet's climate

A Feat of Engineering and Endurance

he drilling, which began several years ago, was conducted in extreme conditemperatures at the site hovering around -35°C. Using specialized drills, the team extracted cylindrical ice segments approximately 10

through more than 2,800 meters of compacted ice, eventually reaching ice that had formed over a million years ago, well before the last major transition in centimeters in diameter and Earth's glacial rhythms

W hat makes this core extraordinary is its age. Previously, the oldest continuous ice core record dated back around 800,000 years. This new sample extends the climate record by at least 400,000 years, deep into the Mid-Pleistocene Transition, a period that saw the frequency of ice ages shift from every 41,000 years

vears. "This is critical for understanding how Earth's climate system works," said project co-leader Dr. Carlo Barbante of Italy's Institute of Polar Sciences, "The ice core can reveal how CO2 levels behaved before and after this transition, insight that's crucial in predicting future climate scenarios.'

to roughly every 100,000

India's Role in Antarctic Research

T ndian scientists from NCPOR played a key role in logistics, drilling support, and on-site scientific operations. Their participation marks a significant milestone in India's expanding role in polar research and global climate studies. "This achievement

capability and commitment to global climate science." said Dr. Anita Desai, Director of NCPOR. "Our collaboration in Antarctica will continue to grow in importance as the world faces unprecedented environmental changes."

gases, dust, and temperature

over the last 1.2 million years.

the study could take years but

may offer crucial insights into

the natural rhythms of

Earth's climate, and how

human activity may be dis-

rupting them.

Experts say results from

showcases India's scientific

What's Next?

he extracted ice core is **⊥** being preserved under ultra-cold conditions and will be transported to Europe aboard the Italian icebreaker Laura Bassi. There, scientists will conduct detailed chemical and isotopic analysis to map changes in greenhouse

Why It Matters

W ith the planet facing a climate crisis, this discovery provides a rare opportunity to learn from Earth's deep past. By understanding

how ancient climates evolved without human interference. scientists hope to better predict what lies ahead for our warming world.



Detailing Made Them Spectacular



The Gangaikonda Cholapuram temple (Jayankondam, Tamil Nadu, India) also known as the great temple of Brihadeeswarar is next in importance only to the Brihadisvara temple at Thanjavur

t the same time as the temples with shikhara and the architectural types developed in the North of India, in the South, a series of temples with pyramidal roof were developed whose process of evolution is analogous to that

of the temples with a curvilinear roof but which had even more numerous variants. We must look for the prototypes of these temples with pyramidal roof, both in older representations (i.e.: the fresco of the cave No. 1 of Ajanta from the 6th century; the scene from the 'Descent of the Ganges' from Mahibalipuram in which an ascetic meditates next to a small temple from the 7th century), and in the sanctuaries carved in a rocky bank of Mahabalipuram: the temples known as the Dharmaraja Ratha and the Arjuna and Draupadi Rathas (7th century) With the passing of centuries, architects and artists progressively developed the great artistic achievements of the medieval era following these archetypes

The essential features

The better defined and more frequent type of temple had, as essential features, a square floor plan whose exterior walls were decorated with built-in pillars and a pyramidal roof whose steps simulated floors or levels, each composed of a cornice that supported the subsequent reduced levels. These reduced levels had a square floor plan if they were located in the angles and a rounded floor plan in the other cases. A crowning with a square or polygonal floor plan topped the



Bay of Bengal.

pyramid. This pattern was strictly followed by the architects. After the Mahabalipuram of the 7th century. one of the oldest temples of this

type built with blocks of sandstone

was erected in the same place: the

Shore Temple, from the 8th century.

This temple already had the main elements that will be employed in the course of the following centuries and constitutes the origin of the great temples that will be built or transformed until the contemporary era. The Shore Temple includes the three essential elements arranged on the same axis and enclosed in a rectangular enclosure. In this temple. the sanctuary (vimana) is covered by a stepped pyramidal roof clearly higher than those of the other buildings of the complex, even taller than the tall pavilions placed over the doors of the enclosure. Approximately until the 11th century, the reduction in the number of the constructions that embellished each 'floor/level' of the roof of the sanctuary were arranged regularly over each other in decreasing size all the way to the top. Each one of them reproduced, under a simplified form, the monumental constructions with their built-in pillars and their roof

the Indian arch (kudu) Kudu appeared more

elements evolved, the kudu resembled more the appearance of a pediment. The kudu located at the center of each 'level' was generally larger than the others. Overlapping vertically from floor to floor, these kudu created a point of interest on each side of the roof, giving it a kind

with windows following the style of



The Shore Temple (built between 700–728 AD, Mahabalipuram, Kanchipuram District, India) whose name refers to its location overlooking the shore of the

#KUDU ARCHITECTURE

Temple in Kanchipuram can be con-

them was developed at the center of

a rectangular enclosure whose

access door is facing East. In

Kanchipuram, this gate (gopuram)

was one of the first examples that

appeared crowned by a semi-cylin-

der bound at each end by an Indian

arch (kudu): this element resembles

the shape of the city gates portrayed

in Buddhist representations as old

as the 1st century before the

Christian era and that here was

applied to the Hindu religious archi-

ecture. This style of building from

dimensions, became taller following

the same law that governed the pro-

gressive elevation of the pyramidal

roof of the vimana. Once passing

through this door (which was in fact

an entrance pavilion opened into

in the first place a hypostyle pavil-

ion with a flat roof: it is the manda-

short distance stands the vimana

Kanchipuram (Tamil Nadu, India).

AD. The temple contains 58 small

the architects executed innumer-

of the 10th century in the southeast

a better defined style was developed

middle of the 12th century. Later, it

Following this general scheme.

The Kanchi Kailasanathar tem-

false polygonal dome.

ous forms of Shiva.

the 8th century, still of modest

sidered as prototypes. Each one of

The pyramidal roof was

appearance. At the same

time, the roof grows because an increasing

number of 'levels' were nterspersed between the

body of the building and its

crowning. With the passing

of time at the beginning of

the 11th century, this type

was amplified until forming

beautiful example is seen in

a high pyramid: the most

the vimana of the

Brihadisvara temple (Thanjavur) where the

crowning piece of the

pyramid, in the form of a

In this temple, the height

doubled and the 'levels' of

of the sanctuary was

the roof became 13.

polygonal dome, rose up to 60 m from the patio floor.

displayed with an increasingly aberrant



gangaikonda-cholapuram temple nandi.

of ledge where the large kudu-likepediments of the central structure of the pyramidal roof were displayed with an increasingly aberrant appearance. At the same time, the roof grows because an increasing number of 'levels' were interspersed between the body of the building and its crowning. With the passing of time at the beginning of the 11th century, this type was mid: the most beautiful example is seen in the vimana of the Brihadisvara temple (Thanjavur) where the crowning piece of the pyramid, in the form of a polygonal dome, rose up to 60 m from the patio floor. In this temple, the height of the sanctuary was doubled and the 'levels' of the roof became 13.

The Brihadishvara Temple is a Hindu temple dedicated to Shiva located in Thanjayur (Tamil Nadu. India). It is one of the largest South Indian temples and one of the best examples of the Dravidian architecture. The temple was built between 1003 and 1010 AD in granite and its vimana tower above is one of the

The evolution of the temples of this type during the 9th-10th centuries was the continuation of the beautiful constructions that had multiplied in the 7th and 8th centuries mainly in Badami. Pattadakal. Aihole, etc., that is in the places where the curvilinear and pyramidal roof types coexisted. During the medieval period, the temples with pyramidal roof developed considerably, becoming larger and consisting of numerous annex ouildings, chapels, etc. Among the temples of the 8th century, the Shore Temple in Mahabalipuram and the Kanchi Kailasanathar

Cola dynasty Kudu.

he Kanchi Kailasanathar temple is the oldest structure in Kanchipuram (Tamil Nadu, India). The temple is dedicated to the Lord Shiva and was built from 685-705 AD. The temple contains 58 small shrines which are dedicated to various forms of Shiva. Following this general scheme, the architects executed innumerable variants.

During the 10th century, the temples were not numerous nor very vast Carefully built with well-arranged stone blocks, they continued the previous style of the Chalukva dynasty in their essential character istics. A good example of the 10th century Chola style is the Koranganatha Temple Srinivasanallur (Tiruchirappalli), in which was used a new architecillustrated mainly by the pillars and their capitals as well as the presence of niches on the exterior walls of the vimana, each sheltering a divine character carved in high relief. With the consolidation of their

power during the first quarter of the body of the enclosure), we find pa or mandapam. Behind it at a with its pyramidal roof topped by a ple is the oldest structure in The temple is dedicated to the Lord Shiva and was built from 685-705 shrines which are dedicated to variable variants. From the beginning under the Chola sovereigns that continued approximately until the developed into a more ornate style impression of classic majesty which evolved in the same region

medieval sculpture.

under the Pandyan dynasty until the middle of the 14th century. Change of style

the 11th century, the Chola under took more monumental construc tions whose two most beautiful examples were the Temple of Brihadishvara dedicated to Shiva in Thanjavur (1011), whose vimana was already mentioned and the Gangaikonda Cholapuram temples located in Jayankondam (1025 approximately). In these two temples, the Chola style reached its maturity and unfolded with surprising security attesting to the intensity of its faith and the virtuosity of the architects and sculptors of the time. In Thanjayur, the site is vast Its layout includes (in linear order) a door, a pavilion that houses a stat ue of the Nandi bull (the sacred vehicle, vahana, of Shiva), a hypostyle mandapa, a large meeting room and, finally, the vimana itself The very beautiful sculpted decora tion is used with care and the

The Gangaikonda Cholapuram temple (Jayankondam, Tamil Nadu,

emerges from the whole complex.

India), also known as the great temnle of Brihadeeswara, is next in ing a devotee is one of the most importance only to the Brihadisvara temple at Thanjavur. The temple was completed in 1035 AD and is dedicated to Shiva. In Gangaikonda Cholapuram, the whole complex is more imposing: the surface of the patio sur

After its peak, the power of the Chola declined and the big religious rounded by walls is larger and connstruction impulse ceased. The tains on an east-west axis a Pandyan, in turn, dominated southhypostyle hall with 150 pillars that ern India and, although protectors prefigures the mandapa 'of a thouof the arts, they were not properly sand pillars' that will constitute emeritus builders. In fact, it can be in a later period a constant eleobserved in this period (12th centu ment in the composition of the ry - mid-14th century), a tendency to great temples. This mandapa is expand more and more the area occupied by the temples while perlinked to the vimana by a vestibule perpendicular to the petuating the characteristics of the main axis, whose two extremes to Chola style but without providing the North and to the South are proany innovation and only over deco vided with doors that are accessed ration: the different buildings were conceived more with a utilitarian by a steep staircase that climbs the and functional purpose than as high molded platform forming the base of the temple complex. artistic creations, as was the case in The sanctuary itself, with a dark

the 11th century. and mysterious interior, is crowned In the courtyard of the by a pyramidal roof lower than that Gangaikonda Cholapuram temple, Thanjavur (45.60 m), imposing there is an imposing image of a seated Nandi bull, which is aligned although more robust and with less rigor of style characterized by the axially 200 m facing the temple's introduction of horizontal curved sanctum. Vahana, from the lines into the roof that announced a Sanskrit, meaning 'that which carhigh relief is perhaps more sensidenotes the being, typically an anitive here than in Thanjavur and it is mal or mythical entity, a particular Hindu deity is said to use as a vehiworth highlighting the presence cle. In this sense, the vahana is often next to the southern entrance of the vestibule of a panel in high relief, called the deity's 'mount.' Deities representing Shiva crowning with a are often depicted riding (or simply flower garland King Rajendra Chola mounted upon) the vahana. Other I (1018-1033), who had 'gone to the times, the vahana is depicted at the deity's side or symbolically repre-Ganges,' it is one of the few examsented as a divine attribute. ples of royal portraiture in Indian

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By Rick Kirkman & Jerry Scott

#NATURE

Wild Bananas of Medog __

These wild bananas are not the cultivated, sweet varieties most people are familiar with. They belong to ancient species of the

Musa genus



ucked away in the lush, isolated valleys of Medog County in southeastern Tibet lies a surprising and rare botanical find: wild bananas. In a region known more for its soaring mountains and harsh climates, the presence of banana plants seems almost unbelievable. However, Medog is unique. Thanks to its relatively warm, humid climate and low elevation compared to the Tibetan Plateau, it is home to a rich variety of subtropical flora, including wild banana species that have thrived there for genera-

These wild bananas are not the cultivated, sweet varieties most people are familiar with. They belong to ancient species of the Musa genus, often growing freely in the forests surrounding Medog's rivers and trails. Their fruit appears similar to that of domesticated bananas, but inside lies the key difference: a dense, fibrous pulp filled with large, hard seeds



The Mystery of Inedibilit

t first glance, the fruit of only unpleasant but often A t first glance, the truit of the wild banana may impractical. seem appealing, especially to Despite travelers unfamiliar with local plant life. However, these bananas are often deemed inedible in their natural state. The flesh is dry, starchy, and sometimes bitter. Unlike commercial bananas, which are soft and sweet due to centuries of selective breeding, wild bananas retain many characteristics of their ancient ancestors, including a

high seed-to-pulp ratio that

makes eating them raw not

bananas are not entirely useless. While the fruit may be inedible, the seeds within them are known to be edible under certain conditions Local communities and indigenous groups in and

around Medog have learned how to prepare and use the passed down over genera tions, transforming an other wise overlooked forest fruit

Cultural and Environmenta

he seeds of wild bananas food sources during the chang-

are often large, black or brown, and incredibly hard, more like pebbles than what one might think of as edible seeds. But within these stonelike shells lies valuable nutri tional content, including plant proteins and essential fats. In areas where access to cultivated food crops is limited, wild plants such as these play an important role in local diets. especially as supplemental

ing seasons. Edibility, howev er, does not mean the seeds can be eaten raw. Much like other wild plant seeds and nuts, they require processing to make them digestible and safe. The seeds are rarely consumed on their own: instead, they are part of a broader knowledge system of foraging, processing, and cooking that helps unlock their hidden benefits.

Traditional Preparation Techniques

ocal knowledge in Medog, lacktriance expecially among commu nities like the Lhoba people, includes a range of techniques for preparing wild banana seeds. While detailed written records are rare, especially in English sources, ethnobotanical surveys and oral histories reveal some common steps.

Typically, when the wild bananas are harvested, the seeds are extracted from the fruit and thoroughly cleaned. The raw seeds are extremely hard and difficult to chew, so, they are often roasted over fire or boiled for extended periods to soften the outer shell and reduce any naturally occurring bitterness. In some cases, the seeds are crushed or ground using traditional stone tools into coarse paste or powder, which is then mixed with other foods such as root vegetables, wild grains, or herbs.

Cooking the seeds not only makes them easier to digest but may also neutralize certain compounds that are unpalatable or mildly toxic when raw. The resulting mix ture can be eaten as a type of gruel, porridge, or side dish. In harsher seasons, such preparations are especially valuable, offering a source of sustenance when other food supplies are low.

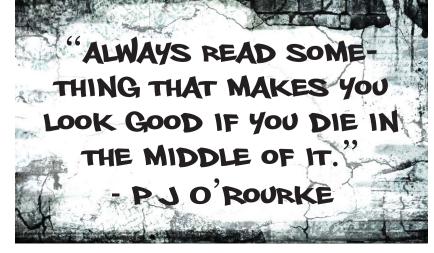
Significance n he use of wild banana seeds in Medog is not just a mat-

ter of survival or sustenance. It reflects a deep connection between local people and their knowledge system in which even the most unlikely plants are recognized for their potential value. In recent years, researchers have begun documenting this knowledge more systematically, aiming to preserve it as younger generations move away from traditional lifestyles. Moreover, the wild bananas of Medog are a biological treasure. They represent ancient genetic diversity untouched by human domestication. Botanists studying these plants believe they could hold the key to improving banana crops worldwide, especially in terms of disease resistance and climate resilience.

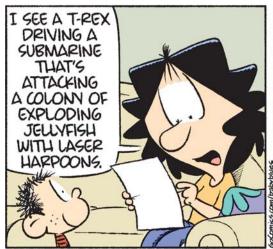


By Jerry Scott & Jim Borgman

THE WALL



BABY BLUES



I LOVE IT. IT'S PERFECT!



ZITS

