Earth oven

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An earth oven, ground oven or cooking pit is one of the simplest and most ancient cooking structures. At its most basic, an earth oven is a pit in the ground used to trap heat and bake, smoke, or steam food. Earth ovens have been used in many places and cultures in the past, and the presence of such cooking pits is a key sign of human settlement often sought by archaeologists. Earth ovens remain a common tool for cooking large quantities of food where no equipment is available. They have been used in various civilizations around the world and are still commonly found in the Pacific region to date.

To bake food, the fire is built, then allowed to burn down to a smouldering. The food is then placed in the oven and covered. This covered area can be used to bake bread or other various items. Steaming food in an earth oven covers a similar process. Fire-heated rocks are put into a pit and are covered with green vegetation to add moisture and large quantities of food. More green vegetation and sometimes water are then added, if more moisture is needed. Finally, a covering of earth is added over everything. The food in the pit can take up to several hours to a full day to cook, regardless of the dry or wet method used.

Today, many communities still use cooking pits for ceremonial or celebratory occasions, including the indigenous Fijian lovo, the Hawaiian luau, the Māori hāngi and the New England clam bake. The central Asian tandoor use the method primarily for uncovered, live-fire baking, which is a transitional design between the earth oven and the horizontal-plan masonry oven. This method is essentially a permanent earth oven made out of clay or firebrick with a constantly burning, very hot fire in the bottom. In modern times, earth ovens are sometimes used for outdoor cooking and recreational meals in lieu of an open campfire.

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Americas

In many areas, archaeologists recognize "pit-hearths" as being commonly used in the past. In Central Texas, there are large "burned-rock middens" speculated to be used for large-scale cooking of plants of various sorts, especially the bulbs of sotol. The Mayan *pib* and Andean *watia* are other examples.

The clam bake, invented by Native Americans on the Atlantic seaboard and considered a traditional element of New England cuisine, traditionally uses a type of ad hoc earth oven (usually built on the beach). A large enough hole is dug into the sand and heated rocks are added to the bottom of the hole. A layer of seaweed is then laid on top to create moisture and steam, followed by the food. Lastly, another layer of seaweed is added to trap in the steam and cook the food, which mainly consists of shellfish and vegetables.

The Curanto of the Chiloé Archipelago consists of shellfish, meat, potatoes, milcao chapaleles, and vegetables traditionally prepared in an earth oven. It has spread to the southern areas of Chile.

Middle East and North Africa

Earth oven cooking is sometimes used for celebratory cooking in North Africa, particularly Morocco: a whole lamb is cooked in an earth oven (called a *tandir*, etymologically related to the Central- and South-Asian tandoor and possibly descended from an Akkadian word *tinuru*) in a manner similar to the Hawaiian kalua. Among Bedouin and Tuareg nomads, a simple earth oven is used – often when men travel without family or kitchen equipment in the desert. The oven is mostly used to bake bread but is also used to cook venison such as waran. When baking bread, the wheat or barley flour is mixed with water and some salt and then placed directly into the hot sands beneath the camp fire. It is then covered again by hot coal and left to bake. This kind of bread is eaten with black tea (in the absence of labneh). The sand has to be knocked off carefully before consuming the bread. Sometimes this type of bread is also made when the family is together, because people like the taste of it. The bread is often mixed with molten fat (sometimes oil or butter) and labneh (goat milk yoghurt) and then formed into a dough before eating. This bread is known as Arbut[1] but may be known under other local names.

Pacific

Earth oven cooking was very common in the past and continues into the present – particularly for special occasions, since the earth oven process is very labor-intensive.

In some part-Melanesian, Polynesian, and other closely related languages, the general term is "umu," from the Proto-Oceanic root *qumun (e.g. Tongan *ʻumu*, Māori *umu* or *hāngi*, Hawaiian imu, Sāmoan *umu*, Cook Island Māori umu). In some non-Polynesian, part-Polynesian, and Micronesian parts of the Pacific, languages are more diverse so each language has its own term - in Fiji it is a *lovo* and in Rotuman it is a *koua*.

In Papua New Guinea, "mumu" is used by Tok Pisin and English speakers, but each of the other hundreds of local languages has its own word. In the Solomon Islands the word in Pidgin is Toku.

Despite the similarities, there are many differences in the details of preparation, their cultural significance, and current usage. Earth ovens are said to have originated in Papua New Guinea and have been adopted by the later...
arriving Polynesians.

**Samoan umu**

The Samoan *umu* uses the same method of cooking as many other earth ovens and is closely related to the Hawaiian earth oven, the *imu*, which is made underground by digging a pit (although generally the *umu* is done above ground rather than in a pit). It is a common day-to-day method of preparing roasted foods, with modern ovens being restricted to western-style houses. In the traditional village house, gas burners will be used inside the house to cook some food in pots. The *umu* is sheltered by a roof in case of rain, and it is separate from the house. There are no walls, which allows the smoke from the *umu* to escape.

The Samoan *umu* starts with a fire to heat rocks which have been tested by fire as to whether they will explode upon heating. These rocks are used repeatedly but eventually are discarded and replaced when it is felt that they no longer hold enough heat. Once the rocks are hot enough, they are stacked around the parcels of food which are wrapped in banana leaves or aluminium foil. Leaves are then placed over the assembly and the food is left to cook for a few hours until it is fully cooked.

**Hawaiian imu**

The Hawaiian *imu* was the easiest way to cook large quantities of food quickly and efficiently for the Hawaiians. Because their creation was so labor-intensive, *imus* were only created for special events or ceremonies where it would be worth the time and hard work. An *imu* is created by first digging a 2- to 4-foot hole in the ground. Porous rocks are heated for a while and subsequently added to the bottom of the pit; next, a layer of banana stumps is added on top of them along with banana leaves. After the vegetation is laid down, the meat, fish, and any other foods are placed on top and covered once again with more vegetation. Wet cocoa sacks are also sometimes added on top to add even more moisture and trap in more heat.

**Europe**

Although not believed to be common in Europe, earth ovens were used from the Neolithic period onwards with examples from this period found at the sites of Rinyo and Links of Notland on Orkney, but are more commonly known in the Bronze and Iron Ages from sites such as Trethellan Farm, Newquay and Maiden Castle, Dorset. Examples from these periods vary in form but are generally bowl-shaped and shallow in depth (30–45 cm) with diameters between 0.5 and 2 metres. In Greek cuisine, there is also a tradition of *kleftiko* ("thief style") dishes, ascribed to anti-Turkish partisans during the Greek War of Independence, which involve wrapping the food in clay and cooking it in a covered pit, allegedly at first to avoid detection by Turkish forces.

**See also**

- Hāngi
- Kalua
- List of ovens
- Pit barbecue
Notes
2. Renfrew, J 2005

References

- Renfrew, Jane (2005), *Prehistoric Cookery: recipes and history*, English Heritage
- *The Samoan UMU!*, Samoa Online
- *Imu - Hawaiian Underground Oven*, Imu
- *Host a New England Clambake for a refreshing Taste Of Summer*, About.com Entertaining

External links

- The Samoan Umu (http://www.wsamoaw.ws/index.php?m=83&s=&i=1793)
- Recreating an Andean Earth Oven (http://titicaca.ucsb.edu/chamak_pacha/ethnographic/watia/)
- Team Mumu Pit Cooking (http://www.thesalmons.org/lynn/pit.html)
- The Earth Oven or Cooking Pit (http://secwepemc.sd73.bc.ca/sec_village/sec_cook.html)


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