CVINGER

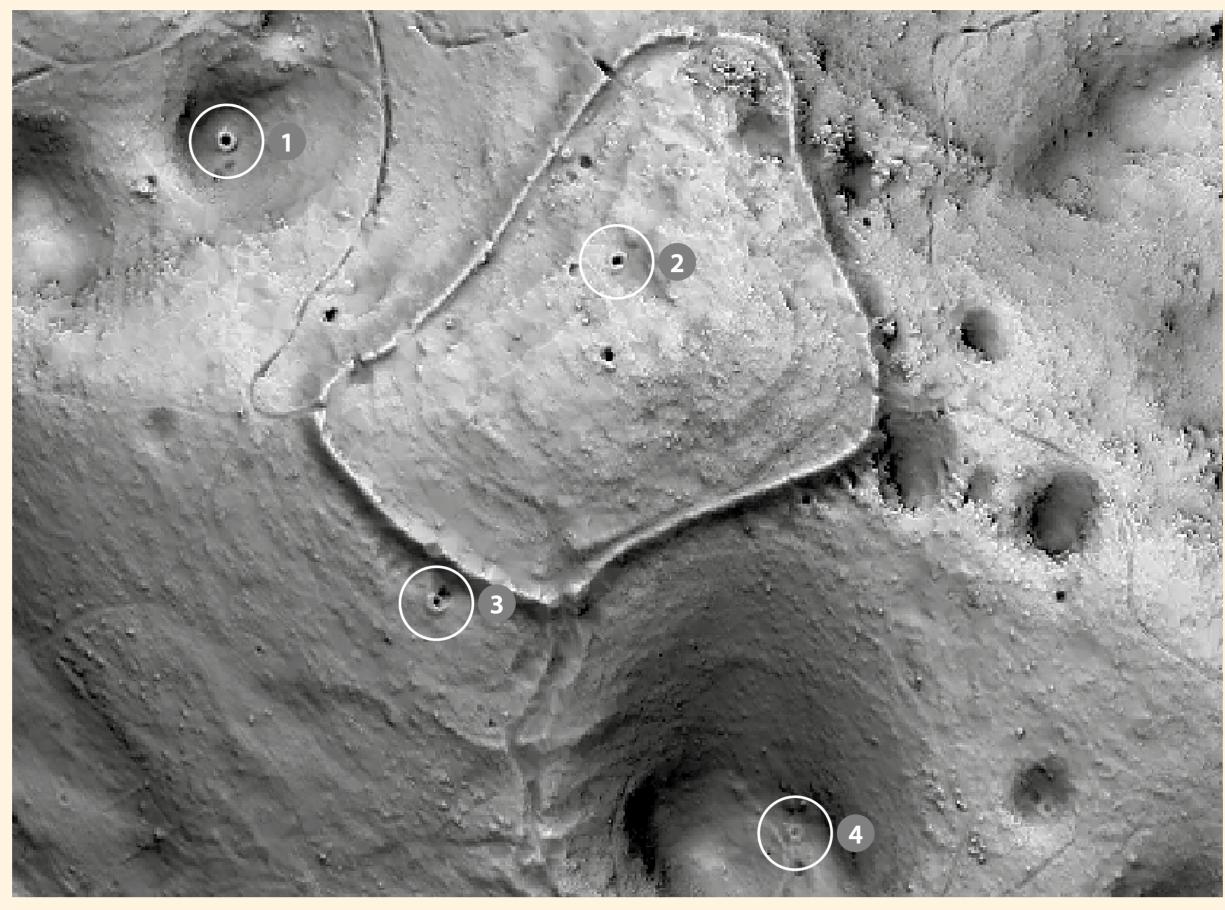
Apnenice

Na prikazu zračnega laserskega snemanja Cvingerja (LiDAR) izstopajo štiri kolobarjaste tvorbe. Po terenskem pregledu se je izkazalo, da so to ostanki izpraznjenih apnenic. Čeprav je žganje (kuhanje) apna eden od najstarejših kemijskih procesov, ki jih je obvladal človek, teh poljskih peči ne smemo povezovati s tukajšnjimi prazgodovinskimi ostanki. Cvingerske apnenice so najverjetneje nastale šele v 19. ali 20. stoletju. Apneničarstvo je bilo nekdaj najbolj razvito na območjih z veliko apnenca in bukovega lesa, ki so ga rabili za kurivo. Svoj čas je bila to pomembna panoga domače obrti.

Vešči mojstri so gradnjo peči pričeli z izkopom jame, v kateri so oblikovali obokano kurišče. Nad njim so naložili apnenčeve lomljence. Obod so napravili iz pokončnih brun, med katere so vodoravno vpletli okleščene veje. Vmesni prostor so zapolnili z zemljo in jo zbili tako, da so zatesnili vrzeli med kamni. Takšne začasne apnenčaste kope na obrobju vasi ali v bližnjem gozdu so v višino merile tudi 6 metrov in več.

Po prižigu peči se je kamen v notranjosti segreval in z višanjem temperature (~ 1000 °C) je postopoma zažarel. Iz apnenca (kalcijev karbonat) se je po nekajdnevnem kurjenju izločil ogljikov dioksid. Po ohladitvi apnenice, ki je glede na njeno velikost lahko trajala več dni, so iz njene sredice pobrali žgano (živo) apno (kalcijev oksid). Tega so nato v ločenih, z lesom obdanih apneniških jamah gasili (zalivali) z vodo, s čimer so pridobili široko uporaben proizvod – gašeno apno (kalcijev hidroksid).

Primerno odležano gašeno apno so nekoč v velikih količinah rabili v gradbeništvu (vezivo), strojarstvu, usnjarstvu, za beljenje stanovanj in razkuževanje ter pri konzerviranju jajc. Z mešanico apnenih ostankov in pepela so za zaključek pognojili še polja in travnike.



Položaj ostankov apnenic na Cvingerju. | The location of the remains of the former limekilns.

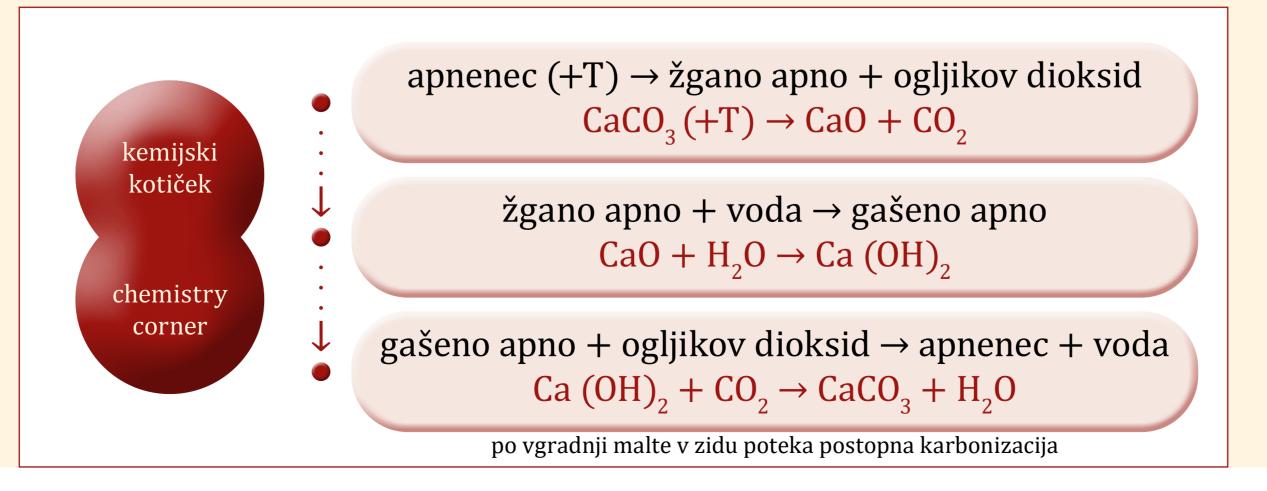




Apnenica pred žganjem in po njeni izpraznitvi (Kostanjevica na Krki, foto Boris Orel, hrani SEM). A limekiln prior to firing and after the removal of its contents (Photo: Boris Orel; kept by SEM).



Ostanki štirih cvingerskih apnenic. | The remains of four limekilns on Cvinger.



Lime kilns

Four ring-shaped structures on the aerial laser scan plot (LiDAR) of Cvinger. Field survey revealed that they were the remains of empty limekilns. Although the burning of lime is one of the oldest chemical processes known to man, these limekilns were not connected with the prehistoric remains in the area. The limekilns on Cvinger were probably built in the 19th or 20th Century. Lime burning was formerly highly developed in areas with considerable deposits of limestone and extensive supplies of beech wood, which was used as fuel. It was formerly an important component of local craft production.

An experienced crafts man began kiln construction by digging a pit, in which he constructed a domed hearth. They stacked limestone rubble above this. The circumference made up of upright wooden posts, interlaced horizontally with branches. The intervening space was filled with earth and compacted to close the voids between the stones. These temporary limekilns on the edges of villages or in neighbouring woodland usually 6 m or more in height.

After firing the stone in the interior was heated and with the raised temperature (~ 1000 °C) of gradually burnt. The gradually firing of the limestone over several days burnt off the carbon dioxide in the limestone. After cooling, a process that might take several days, depending on the size of the kiln, the burnt (quick) lime (calcium oxide) was collected from the centre of the kiln. It was in the making of a widely used product – slaked lime (calcium hydroxide). This was made by combining quick lime with water in timber-lined pits.

Properly aged slaked lime was formerly used in great quantities in building (mortar), tanning, leather working, painting dwellings, disinfection and the preservation of eggs. A mixture of lime and ash was used as a final layer of fertiliser on fields and meadows.









