With the violent 1990s behind them, archaeologists in Bosnia hoped they would receive more support for academic research; instead, they are being pushed aside by amateurs

SARAJEVO—It should have been a great day for Balkan archaeology. For the first time since the bloody civil war, experts from all corners of ethnically divided Bosnia gathered for an impromptu meeting at the National Museum. Television crews were waiting outside for interviews. Foreign scientists were on hand, too—including the president of the European Association of Archaeologists, Anthony Harding of Exeter University in the U.K.

But the mood was one of deep frustration. The journalists weren’t interested in the scientists’ plans for restarting international collaborations. Nor did they want to hear about rebuilding the ailing university curriculum, or saving the country’s archaeological assets from neglect and looting. “They only want to hear about one thing,” says Zilka Kujundzic-Vejzagic, the museum’s expert in prehistoric archaeology, who organized that 9 June meeting: “pyramids, pyramids, pyramids.”

The “pyramids” in question are 30 kilometers northwest of Sarajevo near the town of Visoko. A Bosnian businessman named Semir Osmanagic, who runs a construction company in Houston, Texas, announced last year that a 360-meter-tall hill that looms over Visoko is in fact a buried pyramid built, he claims, by an unknown civilization 12,000 years ago. Osmanagic has proposed that two smaller hills nearby are part of the same “pyramidal complex.”

That vision is not shared by any of a half-dozen archaeologists and geologists who spoke to Science after visiting Visoko. The truth is plain, says Stjepan Coric, a Bosnian geologist at the University of Vienna, Austria, who was invited by Osmanagic to examine the site: The stone slabs are nothing more than fractured chunks of sediment called breccia, the remains of a 7-million-year-old lakebed that was thrust up by natural forces. “This is what gives the mound its angular shape,” Coric says. As for the tunnels, “if they were made by humans, without establishing their age, I would assume they are part of an old mine.” Harding’s verdict: “It’s just a hill.”

But this humdrum assessment has been swept aside by a pyramid-mania that has gripped the media. Osmanagic, aided by a publicist and an Indiana Jones–style hat, is widely depicted as a maverick bravely pursuing his unorthodox hypothesis. Even the BBC contributed a wide-eyed report in April. The Bosnian public and politicians have fallen deeply under his spell. Archaeologists are concerned that funding for real research projects is being drained away to support Osmanagic’s “Pyramid of the Sun Foundation,” and those who voice dissent are receiving hate mail. “To believe in the pyramids has become synonymous with patriotism,” says Kujundzic-Vejzagic. Worse than that, some archaeologists say, Osmanagic is starting to dig up the remains of unstudied human occupation, possibly a long-sought medieval town. “Pyramid-mania” will probably be short-lived, says Harding, but it would be “tragic” if it damaged “real archaeological material.”

Picking up the pieces

“Sarajevo was a real center of excellence” for archaeology before the war broke out in 1992,
Human design? The hill that looms over Visoko resembles a pyramid.

says Harding. But during 4 years of nonstop shelling, “we nearly lost everyone and everything,” says Kujundzic-Vejzagic, who fled to Croatia a year into the conflict.

Archaeological sites were used as defensive positions in fierce battles, and shattered windows left the museum vulnerable to winter weather and animals. The timing could not have been worse, says Preston Miracle, an archaeologist at the University of Cambridge, U.K., who has worked in the region for 2 decades. Just before the war, he says, “the senior generation of Bosnian prehistorians all died,” and the generation in line to replace them scattered.

Ten years on, the community still has not recovered, “but at least it is clear what needs to be done to get us back in shape,” says Kujundzic-Vejzagic, who returned in 1998 and has remained at her post in Sarajevo. The first priority is “to assess and protect” the endangered archaeological riches in the country, now known as Bosnia and Herzegovina. This roughly Switzerland-sized territory has been continuously occupied all the way back to the last Ice Age and beyond.

Little is known about the first Slavic tribes that arrived some 1500 years ago, says Kujundzic-Vejzagic. Even less is known about the people who preceded them, the Illyrians, who held sway from around 1300 B.C.E. until the Romans took over. Learning more about their interactions with neighboring cultures, especially the Greeks, would shed light on the technological revolutions that changed Bronze and Iron Age Europe. “All of these settlements and graves are just waiting to be studied,” she says, although “we’d do better to leave everything in the ground” until resources are secured to protect against weather and looters.

Deeper in time, fundamental questions about Neolithic society have sustained one of the few remaining international collaborations in Bosnia. Over the past 4 years, a team led by Kujundzic-Vejzagic and Johannes Müller, an archaeologist at the University of Kiel, Germany, has been exploring a site near the town of Okoliste, 7 km away from the pyramid hunt. It has been identified as part of the Butmir culture, a source of richly decorated pottery and intricate statuettes discovered in 1893. Research on these artifacts and related 7000-year-old dwelling sites could help answer one of the central questions of prehistoric archaeology, says Müller: “How and why did we go from simple, egalitarian societies of small settlements to complex, hierarchical societies with big, dense settlements?”

Buried in the soil near Okoliste are the remains of the largest Neolithic settlement ever found in Europe: between 200 and 300 houses protected by a ring of three trenches and a raised bank. “I was astonished when I realized that this defended area alone could have been home to as many as 3000 people,” Müller says. Settlements from contemporary Neolithic cultures in Europe were occupied by no more than 300.

Another research team, led by Miracle and Tonko Rajkovaca, a Bosnian archaeologist also at Cambridge, has just begun looking for traces of even earlier human occupation in northern Bosnia; the area is thought to be one of the last refuges of the Neandertals. “Despite the richness of this record,” says Miracle, the region “remains poorly known and understood.”

With relatively untapped heritage resources, academic archaeologists say, the Bosnian government should be trying to help in any way possible. But instead, many researchers feel that the country is turning against them.

When hills become pyramids

If you stand in the right place in Visoko, the largest of the nearby hills almost looks like a pyramid. At least, two of its sides are more or less flat, although the rest is lumpy. During a tour of the site by Science in June, freshly dug earthen stairs led up the slope through the trees, slick with rain. Along the way up, technology inherited from the lost civilizations of “Atlantis and Lemuria.”

He says he has sought the help of experts to make “serious scientific argumentation.” One of the first was Amer Smajbegovic, a geophysicist who runs a surveying company and teaches at the International University of Sarajevo. “I noticed that the area has a peculiar triangular-sided feature you don’t see too often in a temperate environment,” says Smajbegovic, who analyzed satellite imagery for Osmanagic. Thermal and radar imaging also made the hill seem “out of the ordinary,” he says. So Smajbegovic wrote to Osmanagic that “there are anomalies present in your area of interest, and you may have something there. I suggest you find yourself in your area of interest, and you may have something there.” But “the next thing I know,” Smajbegovic says, “there was a
headline in the Bosnian papers: Satellite imagery confirms Osmanagic’s discovery of pyramids in Bosnia.” This would prove to be the start of a barrage of “sensationalism,” he says.

Osmanagic says he invested $20,000 of his own money to hire dozens of people, including a public relations manager, and established a tax-exempt foundation to pay them. He also placed an advertisement in the listings of the Archaeological Institute of America for someone who could do Paleolithic fieldwork. Among those who responded was Royce Richards, an archaeologist who works for the Australian government as a heritage officer in Adelaide.

In January, “things got very strange,” says Richards. In newspaper articles around the world, he was named as one of the main “expert advisers” on an international dig that has discovered “evidence of Bosnian pyramids.” Osmanagic’s foundation Web site had included Richards in the “advisory committee of experts,” even though he never visited Bosnia nor confirmed that he would participate. Other academics say they were listed although they had never asked to be involved. One of them, Bruce Hitchner, head of the archaeology program at Tufts University in Medford, Massachusetts, objected when he learned that his name had been hijacked.

Osmanagic has removed all the expert advisers’ names from his Web site but says, “I did nothing wrong.”

Smailbegovic visited Visoko in April to see the project for himself. “The situation was chaotic,” he says. Osmanagic’s volunteers are digging up the area, but Smailbegovic didn’t see much effort directed at “answering the question of why there are geo-spatial anomalies in the Visoko valley.” Smailbegovic and other geologists conducted their own field study of the Visoko valley in May and June. He says Osmanagic has ignored their detailed reports, which conclude that natural forces created “the majority of the landscape features” and that “meticulous archaeological work” is needed to determine whether humans had any part in it.

Osmanagic says he is doing just that, but archaeologists are outraged. “This is the equivalent of letting me, an archaeologist, perform surgery in hospitals,” says Enver Imamovic of the University of Sarajevo, a former director of the National Museum.

By assuming that the hills are pyramids from the very start, says Müller, “that’s all he’ll ever see.” For example, he points out, Osmanagic’s deduction of the age of the pyramids at 12,000 years old is based on nothing more than the depth of the soil over the stones that he claims are masonry. While clearing away that soil, Osmanagic’s volunteers have found engraved stones and a skeleton. Imamovic worries that these may be signs of a long-sought necropolis or a lost town mentioned in Byzantine texts. Osmanagic says the skeleton “is being analyzed,” but he believes it was recently interred.

Osmanagic also says he has uncovered a stone layer that is “the pyramid’s face” on one of the smaller hills. A European archaeologist working in Bosnia who had a look for himself says, “There is a real wall there, but it looks to me like part of a small Middle Age rain reservoir.” The archaeologist, who requested anonymity for fear of losing permission to work in the country, says he is not surprised that diggers have uncovered signs of human occupation: “People have been here for millennia.” But after Osmanagic is done with Visoko, “we may never know what was really here,” he says. The real archaeological material is between the surface and the bedrock, he says, “but for a pyramid-hunter, that is just dirt to strip away.”

Osmanagic says he is aware that he is digging through layers of occupation and claims he will publish his results “in a peer-reviewed journal” in November. “But I am not interested in the approval of elite scientists. This project is for the people.”

Popular archaeology

In spite of the protests from academic quarters, public and political support for Osmanagic seems to be growing. The government has granted him all the necessary permits and has even helped finance his excavations. “It is shocking” that public funds are flowing to Osmanagic instead of the country’s desperate archaeologists, says Müller. But Osmanagic says that only 10% of his current budget—the total is about $300,000, he says—comes from government support, while the rest is from “private funds and corporate sponsors.”

One expert says it’s easy to understand why people seeking a national identity would embrace the Visoko phenomenon. “Osmanagic’s pyramid fantasies are exactly what the majority of Bosnians want to hear,” explains a Bosnian sociologist who spoke on condition of anonymity. There are also economic motivations. Last month, Osmanagic announced plans to build three “archaeological parks” across the country that will “rewrite world history” by revealing more evidence of Bosnia’s prehistoric “supercivilization.” New highways and hotels are part of the plan.

Crude as it may seem, pyramid-mania could be a boon over the long term, says Miracle: “If the energy and interest in archaeology can be redirected into Bosnia’s rich heritage, then this affair would not be such a fiasco after all.” But few are optimistic. Kujundzic-Vezagic says she is on the verge of quitting. She says she’s been the target of hate mail from the pro-pyramid movement; no one in government has stepped forward to defend her. If she goes, the entire Butmir project will probably fold, says Müller. “There is no other prehistoric archaeologist in the country,” she says. “She is our only partner.” Bosnia’s other archaeologists are in an equally precarious position. A Visoko municipal official recently announced that all critics of Osmanagic’s project should be denied access to research locations and have their degrees revoked.

Descending the hill back down to Visoko, a visitor wades through the friendly locals selling official “Pyramid of the Sun” T-shirts and mugs. One thing is clear: Some people will benefit from the hunt for a prehistoric Bosnian civilization. But they may not be academic archaeologists.

JOHN BOHANNON