The Ultimate Cultural Resource?

y the late 1990s, many Americans had noticed that nighttime stars were becoming less and less visible, and most had probably recognized the growing amount of human-generated light as the reason. Although people regretted the change, it probably seemed minor in comparison to more obviously life- and health-threatening degradation of the environment.

In the meantime, a growing cadre of environmentalists had been struggling for over a decade with the problem of light pollution (Hunter and Goff 1988). An international coalition of advanced thinkers had formed the International Dark-Sky Association, an advocacy body to raise public consciousness, certain parts of the news media had begun to call attention to the problem, and the National Park Service (NPS) Southwest Region had developed an initiative of multi-faceted actions to counteract light pollution in the parks (Cook 1991). These actions had limited effectiveness because the night sky of national park units was vulnerable to the impact from light sources well beyond park boundaries. Moreover, although excess nighttime light seemed clearly to be a diminution of the overall quality of human life, the atmosphere and the stars beyond it seemed to fall into the environmental category of natural resources. It took bold action by a fledgling statewide New Mexico citi-

zen's group, with thoughtful support from NPS, to bring the night sky into focus as a cultural resource as well.

Although there had been somewhat desultory attempts earlier, New Mexico was one of the last few states to form a successful statewide citizen organization devoted to the preservation of history and cultural heritage (New Mexico Heritage Preservation Alliance 1995). Such organizations are encouraged and assisted by the National Trust for Historic Preservation. Several individuals involved in launching the New Mexico Heritage Preservation Alliance in 1995 had been players on the national historic preservation scene, particularly through the National Trust. They were eager not only to ensure the success of the new statewide alliance, but to have it demonstrate a precocious energy and bent for innovation. Consequently, in 1998, when the young alliance solicited nominations from which to designate its first list of "most endangered historic places" in the state, a practice long followed by

other statewide organizations, it was in a frame of mind to be daring.

Statewide historic preservation organizations have no authority to remove threats to endangered places, and they generally have little money or staff time to devote to problems. However, they have found that press, public, government authorities, philanthropists, and potential volunteers tend to take great interest in the annual designations. Because the designations possess significant power to stimulate action, they actually have a very good track record for leading to the preservation of important places that had been on the brink of destruction.

In 1998, one of the members of the board of directors of the New Mexico Heritage Preservation Alliance was Jerry Rogers, the superintendent of the NPS support office in Santa Fe. Rogers, who had previously served as Keeper of the National Register and long-time representative of the Secretary of the Interior on the National Trust Board, was on the alliance's committee charged with developing the list of most endangered places. He shared information about the task with his staff, and Joe Sovick, chief of stewardship and partnerships in the support office, immediately suggested doing something concerning the night sky.

Encouraged by Rogers, Sovick put a few initial thoughts on paper (Sovick 1998). His draft revealed the difficulty of encompassing a clear, unpolluted night sky within the meanings suggested by terms such as "historic," "cultural," and "heritage preservation." They generally imply places and things that are created by human hands and meet criteria for the National Register. However, Rogers, as Keeper of the National Register, had observed and contributed over the past twenty years to some tentative beginnings, and then to accelerating progress, in defining the concept of 'cultural landscapes." In general, landscape architects had led the cause in defining historic and cultural values in designed landscapes, such as gardens and some parks; geographers had focused upon landscapes that reflected less-formal human activity: and American Indian tribes and anthropologists had focused upon landscapes that were important because of values or beliefs projected upon the landscapes by human societies. In a few cases, large tracts of land. prominent topographical features, and even entire mountains (e.g., Bear Butte in South Dakota) had been listed in the National Register because of cultural values and traditional beliefs projected upon them. Sovick and Rogers were about to suggest that this concept could be applied to the nighttime visible universe.

The endangered historic places nomination, which combined Sovick's passion for the night sky with Rogers' long and varied experience in defining historic significance, read as

follows:

From the Neistocene to the present the night oly has been an important element is cultural heating. The combination of what appeared to be element order in certain night oly pattame with such changeable things as large phases, planetary movements, occurred angles of declination, and armed meteor shorers was one of the early great stimuli to outsidy. The decoracy of predictable order among the incorntants was important in the development of belief systems and their attendent cultural values—influencing even the idea of what I means to be harvour. It remains so today.

Mammoth harters at Goris and Folsom, arrestral Purchisms at Charco and Percei, Varques de Coronado in his explorations, Orate and de Vargas in their conquects, combays on night hard duty, and office numbers recting from their duily toils all hare fixed under, admired, and nondered about the came night also without we changed in human history.

A priotine night alsy almost universally stimelates thought. Some one humbled in their insignificance before the visible universe, and oome are exhibited by a sense of identify cation therewith. Some measure and test the revenuent of our earthly platform milities the solar system, the solar system militia the galaxy, and the galaxy militia the universe until human understanding is eshausted and calculation at its limit. Some speculate shout life describers, and some contemplate that the flesh, blood, and boxes of our way bodies—even the energy powering our thoughts—are of the light and substance. me acc coming darm from the apangles above.

Without conscious action 1 mill be much more difficult for totate generations to have the same experiences, or even to imagine them. As whose areas expand and as change nithout consideration of the night sky continees, places where 1 can be experienced grow tener and more difficult to reach. We risk being a beauty that has been the back-drop to and motivater of human actions since time immemorial.

Surprisingly, it costs society more to poliste the sty with light than to keep it dark. Most eprendy directed light is mosted. We pay once in the electric bill for the light that goes nhave it is not needed, again in emironmental degradation from emissions in govcrating the electricity, and again in the less of the night oly that is masked by marted light. The most common security lights are mercusy vapor lights, which, although the chargest to purchase are among the most expensive to aparato. About 30% of their light goes into the ely at angles that parform no service but do contribute to light pollution. There is no call figure, no profiteeing corporation, nor invaintable force behind the probtern. Today's utility companies are environmentally occasions and interested in occcoming not maring, energy recourses. What is most hoking is public recognition of the problem, broad understanding that light pollution is not incritable, and the nill to do comething about it. Fortunately costs are minimal in presenting light policion, espocially for near developments. Costs of incupending author lighting ayetame ficadly to the night oly are not prohibitive. Sometimes they are not cooks at all.

Several years ago, when the National Park Service realized that its own manage vapor lights near the visitor center at Chara Calane National licensical Park were a form of polar four and reasoned the lights, the park experiensed a 50% reduction in the electric hill. At Chara we learned that shielded developing for directed dominant, and properly directed motion acrosses were effective in meeting visitor and security needs while acrossing as significant energy sevens and polarion proventers.

It is not too late! Herr Mexico is fortunate that unimpaired remnants of the clear night of remain. Some progressive Herr Mexico communities have or one developing artimates to help procure this exceptional visual, natural, and cultural resource. Some private developments are uniting proteotic provisions into coverants on the develop of the lovuses they hald. The Herr Mexico Bestage Preservation Alliance can demonstrate its interest in encryone's health(s), short support for one of the most arrival and universal cultural values, and make a significant difference in citizen arrangences and in public and private action by listing the night of a

among the most favotened heritago resources in 1998 (Nogen 1996).

With the strong support of President Katherine Slick, herself a trustee of the National Trust and a recognized national preservation leader, the alliance readily included the New Mexico night sky among its 1999 list of New Mexico's "Most Endangered Historic Places" (New Mexico Heritage Preservation Alliance 1999). The novelty of the sky as a historic place quickly captured press attention, and positive articles and editorials generated public support for doing something about it.

Preservationists, tribes, certain developers, public-interest nonprofits such as the National Parks Conservation Association, professional and amateur astronomers, and others quickly coalesced to support a bill introduced into the state legislature to protect the night sky. With the alliance in the forefront, Sovick unobtrusively helped the coalition make its case and coordinate to maximum effect.

In almost every one of the various

legislative committees that had to review the bill, a committee member would question the existence of a problem and of the need to pass legislation. However, committee members generally accepted the existence of a problem when public testimony emphasized that the New Mexico night sky had recently been designated as an endangered historic resource by the alliance.

On April 6, 1999, just three months after the alliance released its list of most endangered places, Governor Gary Johnson signed into law the New Mexico Night Sky Protection Act.. After previous unsuccessful attempts to enact legislation, the various interest groups in the supporting were pleased. coalition highly Meanwhile, the alliance continues to work in other ways toward preserving the dark sky of New Mexico. Through development of a brochure entitled "Seeing Stars," construction of a traveling exhibit, and other means, the alliance continues to work toward educating the public about protecting the night sky.

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