Inspiring Visitors' Scienti c Inquiry

by Transforming an Interpreter's Science Communication

Science is wicked cool! So why has my enthusiasm for it dwindled

signi cantly over six years in the role of National Park Service interpretation/ educ30(io)3(n)-23(to provoke visitors' Do I have the corre visitors to increase literacy?

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In my experience, during the typical two- to four-week seasonal training, scienti c research is usually presented in "sound bites," resulting in simpli ed scienti c results to visitors. my super cial understanding of park scienceCombined with assuming that visitors prefer quick answers rather than scienti c details, found myself didactically regurgitating

Despite my best attempts to provoke visitors' wonderment, increasingly felt like a walking encyclopedia and my scienti c curiosity dwindledl lacked the necessary tools to spark visitors' scienti c inquiry and wonder.

me to ignite visitors' scienti c curiosity and understandingnterpreters and Scientists Working on Our Parks (iSWOOP). iSWOOP empowers interpreters to communicate science in story potential and more. an engaging fashion that fosters visitors' RLC and &M briefs reveal the vast scienti c inquiry. Re-connecting with

my own curiosity has enabled me to adopt this new model successfully.

e iPhone with an attached thermal camera captivated me while I was attending iSWOOP training at CarlsbadCavernsNational Park. Cool! How much does this cost? I want one!" I asked out loud. e facilitator did not give me the answer, so I discovered the answer myself using my iPhone: \$250. We were learning how to use thermal camera technology to engage visitors and discuss how it enabled researchers to obtain an accurate bat population count. My excitement for science communication was being re-kindled.

In the table compare iSWOOP's approach to the traditional style of communicating science:

To successfully develop an iSWOOP program, one needs a researcher, stories about the research process, intriguing visuals or props, and interactive techniques to start relevant conversations that raise visitors' awareness abolylational Park-based research. Where can interpreters get briefed on current park research if iSWOOP isn't scheduling scientists to come spend time with interpreters at your park? Most times, the shared drive is a rabbit hole, ine cient for accessing an overview of recent cutting edge studies. e internet is usually

name and access to repositories for science papers. you're interested in integrating park research into your formal and nonformal programming, check out the vast store of research briefs available on theventory and Monitoring (I&M) Networks, Research and Learning enters (RCs), and the Integrated Resource Management Application (IRMA) websites.

Between jobs, I recently worked on the iSWOOP project, collecting and analyzing over 100 research briefs generated by RCs and &M. ese However, a new model has enabled are intended for interpreters' use, and so project director Martha Merson and I characterized the sample, paying attention to various attributes such as readability, type of visuals, subheads, array of scienti c research and extent

of inventory/monitoring e orts across national parks: wildlife, endangered plants, species relationships, and abiotic topics such as water quality. e brief two-page summaries lend themselves to interpreters quickly understanding the essence of the project.

Half of the briefs contained relevance to park management, but only a handful included relevance