What was the genesis of the Michelson program?

GILBREATH: When Michelson got interested in how to keep so many pets from being euthanized in shelters, he realized that affordability and accessibility of spay and neuter were an issue. He started thinking that technology has got to have a solution to this that is non-surgical, affordable, and easy to deploy in a field setting.

JOHNSTON: There has never been such an amount of money available to study dog and cat reproduction. Our program is trying to get the word out to not only scientists who have worked in the field of dog and cat reproduction, but also people who work on basic cellular mechanisms, people who work in human reproduction. To date we’ve approved about 15 proposals.
How affordable do you think the sterilant will be?
JOHNSTON: One of the requirements for winning the prize is that it has a reasonable manufacturing cost. We hope that it will be in the neighborhood of $5 to $10 [per dose] when manufactured on a large scale.

Are the obstacles scientific problems or a lack of research funding?
GILBREATH: It’s probably a combination. Nonsurgical products for humans are out there. I have no doubt that it is technologically possible to do it for pets. I have to think that a lot of it has been technology and funding to really motivate people to apply cutting-edge technology to the issue.
JOHNSTON: It’s not easy to completely disable the reproductive systems. I’ve worked in dog and cat reproduction for nearly 40 years now, and people have done good research in trying to find safe contraceptive agents. But in my career at universities, you would Scramble to get a $10,000 to $50,000 grant, and now we are making available a quarter of a million dollars a year for three to four years. We’ve really had some quite brilliant propositions come in that we think may be able to solve this challenge.

Do you think you’ll find what you’re looking for?
JOHNSTON: I’m really optimistic. Initially, I thought it was like saying to somebody, “Oh, we’ll give you $25 million to turn lead into gold.” But I have since come to recognize that in the last 10 to 15 years, science has advanced on so many fronts that now I really do believe we’re going to award this prize.

A nonsurgical sterilant could make a world of difference for the hundreds of millions of stray dogs around the globe. Too often, local governments deal with overpopulation through poisoning, electrocution, and shooting.