

# MTI SPECS

## 25 Years in the Making



We are offering **FREE GROUND TRACK** throughout 2016!



A lone eagle tagged with a battery-powered PTT was the company logo until 2011.



A 45g battery-powered transmitter was once recovered from the remains of a black stork. Sadly, the bird was stoned and burned after landing on a church, but the PTT was still transmitting!



In 1995, Paul worked with the National Zoo to test a specialized transmitter for elephants.

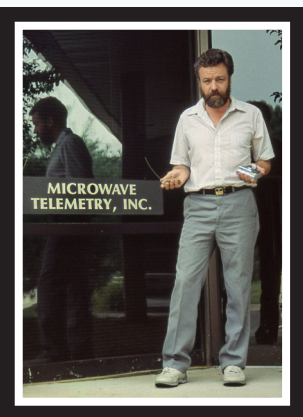


Volume 1 of the MTI newsletter was printed in the summer of 2000.

In 1991, Paul and Christiane Howey started Microwave Telemetry with the hope that they could make a difference in the world, if only in their own small way. Now, 25 years later, we continue to embrace that paradigm, recognizing the ways we changed animal tracking, as well as some of the ways we have changed as a company.

# 23

The number of employees MTI has today. When the company began, the only employee was Paul.



# 0

The number of windows in the original MTI office. The company started in Paul and Chris' basement and has since moved 3 times to accommodate our expansion. We have been at our current location for 16 years and have 14 large windows.



Lucy and Russell were both less than 10 years old when their parents started this company. Now grown, they have taken on their own important roles to help keep MTI at the head of its field.

# <10



# 10x

Today, Cathy contacts about 10 people through email for every 1 person she used to contact via fax.



# 250x

The increase in how many components can now be soldered to circuit boards in an hour. Each component was originally soldered by hand, but the addition of our pick-and-place machine has made the process significantly more efficient.



# 500+

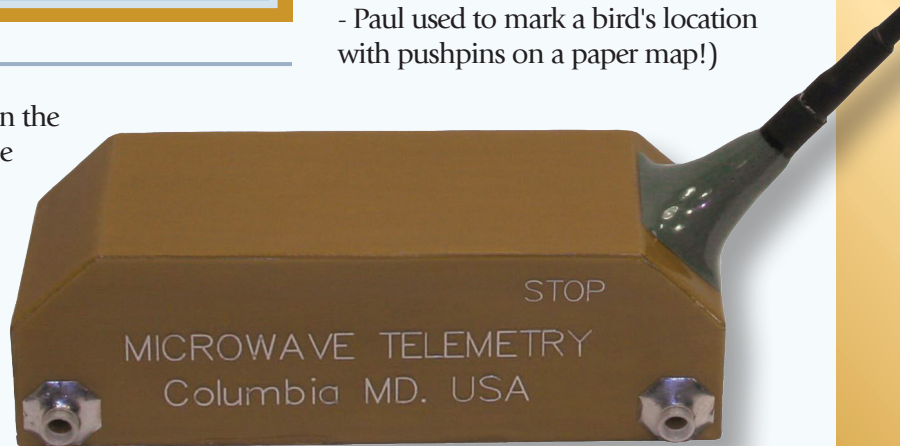
Modern GSM transmitters can take GPS fixes over 500 times in a day, compared to early battery-powered PTTs which could only provide about 10 Argos locations every other day. (And you can see how mapping our animals' routes has changed as well - Paul used to mark a bird's location with pushpins on a paper map!)



# 2g

Our smallest and lightest PTT so far. In the beginning, MIT's only product was the 95g Battery Powered PTT-100. The new 2g Solar PTT (shown below, actual size) weighs a mere 2.1% of its 95g ancestor (shown right, actual size).

## 2 gram PTT Update



As reported in the previous newsletter, we are working to productionize a novel, very tiny PTT. We have made significant progress – the first production version, weighing about 2.5 grams, will be available in limited quantities starting in October of this year.

One of the pre-production prototypes was recently attached to a Red Knot (below) in the Netherlands by Theunis Piersma and his colleagues at NIOZ. This map shows the surprisingly detailed track flown by the bird, including its first unsuccessful attempt to cross the Greenland ice cap and nonstop return to Iceland before its second successful trans-Greenland flight. The low power requirement of this very advanced Argos 3 PTT, together with the new high output solar cells, allows it to transmit virtually continuously, hence the near-continuous track. We're excited to see where this little one goes next!

