

Robert Speiden was born and raised on the family farm in Orange County. A graduate of Virginia Tech, he currently lives with his wife Jennifer in Blacksburg.



All search and rescue people should keep a log Mark Gleason's is full of notes and highly detailed sketches of everything from hiking boot lug patterns



fairly obvious track in six-inch tall clover and lawn grass. Note how the blades are bent over, indicating direction of travel.

found the cell phone. "The harder dles." He pauses and then enigmati-

track somone across that? Yes, it's der is half full, I don't buy it." possible, jokes Robert; it's even easy the concrete sidewalk."

Brown, from the New Jersey pine bar- days are tougher than bright ones he ever has to testify in court, he late. The story ends with tufts of fur rens, helped bring tracking and wilder- where you can see tracks easier by needs to be able to document every scattered on the wind and a blood stain ness survival to the public's eye some the shadows they cast. And tracking at move he made. 20-plus years ago. Robert has gone to night has both advantages and disadsome of his seminars, and he buys vantages. some of what Brown has to say, but not all of it.

selves into seeing things in a track that try to maximize the difference between

male from female by looking at that." cover to find the next track on is wher- He admits there's an obvious differ-The best surfaces are called "track female, just by the size of it." And tions." traps," mud, sand, snow. What about reading other things into a track such solid rock, concrete? Is it possible to as "if they have cancer or if their blad- his salt, will keep extensive logs animal tracks the morning after a fresh

Time of day plays a role. Early "if there's a quarter inch of snow on morning, late evening, when the sun is to a detailed tread pattern of the sole lowing the unsuspecting galumphing A rather famous tracker, named Tom when the sun is overhead. Overcast ing tools, and partly as insurance. If panics and tries to bound away. Too

"I've seen a lot of people talk them- bring it (the flashlight) down low and the department of corrections.

Robert of his dad's yard where he some people say they can see. And I the light hitting the ground and our active search or teaching a class, he's don't see it," he says with a note of eyes hitting the ground," observes working for a Blacksburg based enviground covers might be wet pine nee- finality. "I don't see how you can tell Robert. If the light source is at the at ronmental consulting company. For fun. the same angle as our eyes, "we he'll go out and track animals. His wife cally adds, "Really, the hardest ground He points to a depression in the clover. wouldn't be able to see the shad- Jennifer has caught the bug too. "She ows....At night you can control that." ever the next one is that you can't ence in dimension, "but that's not Besides, he adds, "It's quieter; there that day or not, just by looking at the going to lead me to say that's a are less people out here, less distrac- ground in front of the mail box."

Trackers, in fact any searcher worth can still experience the thrill of following recording everything from the victim's snowfall. They tell stories, like the perstate of mind to what the weather was fectly straight in-line fox paw prints folshining across the tracks is better than of his boot. Logs serve partly as train-rabbit, until the rabbit, sensing danger,

Robert and several of his colleagues have assisted in criminal more detailed than that. The account In the dark, searchers use hand- investigations. In fact, Robert teaches of the fox and hare is a story; his is a held flashlights, not headlamps. "We his signcutting class to employees of novel. It's a thing of beauty, an intricate

When Robert Speiden isn't out on an plicities.

can tell if her mail has been delivered

Those of us not quite as observant on the freshly fallen snow.

To Robert Speiden it is infinitely puzzle, a complex application of sim-



TRACKING:

a complex application of simplicities

obert Speiden hands me his cell phone and asks me to go out in his dad's dew-Covered lawn in Somerset and drop it in the grass. He then announces confidently that he's going to find the cell phone and he's not going to do it the easy way, which would be to borrow mine and call his own number. No, Robert's going to track me to it.

He turns his back, closes his eyes tight shut, sticks his fingers in his ears so he can't hear or see the direction I take. I walk out into the thick grass, turn left unexpectedly, circle behind a weather station in the yard, and drop the phone. I then walk back to him and tap him on the shoul-

Robert turns around, opens his eyes, and quietly launches an incredible process of awareness, of being super observant, of slowing down, and intensely focusing on the most minute of minutiae. "It's not NASCAR racing," he says patiently. "It's very slow, very meticulous, very

detail-oriented, very complex." He smiles faintly, almost zen-like, and quotes a former game warden turned tracker named Mike Hull. "Tracking is a complex application of simplicities."

It is also a challenge that Robert obviously adores. Asked what it is about reading this story of clues; the solving of this puzzle, he says, "Just seeing that blade of grass that somebody stepped on is more beautiful to me than some beach setting. Being able to identify and follow a person; it just piques my interest. I can't tell you why; it just does."

He stands stock still and looks out into the yard. "Everywhere somebody walks they leave sign," he comments. "Sign is a disturbance to the ground, to the baseline. Baseline, to us, is an undisturbed environment.'

But this yard is anything but undisturbed. Even to the untrained eye, a lot has been going on here. It's been a week and a half since this lawn has been mowed, yet the mower tracks are still faintly visible. Dogs have gleefully galloped

Photo by Susie Audibert It's all about the details. Robert Speiden gets up close and personal with a set of human tracks in his dad's overgrown lawn.

Foundations

Signcutting and Tracking



Robert Speiden's self-published 268-page book with 115 photos and illustrations is used by the Department of Emergency Services to teach a class in sign cutting. Copies can be obtained through Speiden's web site: http://www.trackingschool.com

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ORANGE COUNTY REVIEW INSIDER, AUGUST 27, 2009 ORANGE COUNTY REVIEW INSIDER, AUGUST 27, 2009

check the weather station. His dad has driven the through it. How in the world is he going to find, not enough. just human tracks, but my tracks... the ones I made most recently?

Clutching a bundle of pencil-sized orange colored sticks, he slowly skirts my route, placing a stick in each footfall. "Right off the bat I'm seeing a couple of things, some darker areas here that might have been ont white. It's recent. He stomps on a dandelion plant you knocking the dew off. I'm not sure." I don't tell him and then looks at what a similar foot print under simihe's spot on to me.

He points to other tracks in the lawn, and



Tracking can be so detailed, even a bruise to a single clover leaf is treated as a clue.

announces they were made last night. How does he know this? The dew drops are still spherical, not shattered, he explains. And because it did not rain last morning. He follows me to the point where I turn. He body else walking, the lawn being mowed." stops, hesitates, comes back to the starting point again, shifting his focus to my return route.

He drops to his hands and knees and closely investigates the depression that my foot made in the clover. "What got my attention was that track right there. That's pretty clear. That's what we call braille trail." He points to bent over grass blades that indicate a direction of travel. He carefully observes a bruised clover clover against a rock or the ground and tore the tis-

Kawasaki Mule over it. Other people have tromped and they put this guy on my trail; I'd be a goner, sure grins.

He points out a crease in the leaf, then a tear. He mown a week and a half ago. The end of the blade is scarred white, just like "our own skin turns white when cut." But here, the clover leaf is bruised dark green, lar conditions would look like. That's called indexing.

He responds to a question about aging by asking



Photo by Susie Audibert Speiden can even match the micro pattern between the boot sole lugs to the bruising on the clover leaf.

me to abandon traditional ways of marking time. "Tracks don't age just by an hour passing or a minute passing. Aging is more a factor or a result of different when he took Greg L night, he knows those tracks were made prior to this events occurring; the sun coming up, the dew, some- Fuller's field team signcut-

> You would be surprised how long clues remain. "Sign is perservering; it will last over time. It doesn't just go away because it rained or something. A clear track in nice soft sand might be erased partially or Mountain Rescue Group. completely by rain, but it's hard to get rid of every- "I took that class in 1995 thing. That bruising, that damage to that leaf that we saw, that will be around for weeks."

So, this exercise in his dad's yard is relatively easy bers saying to himself leaf in the middle of the track. "The dark green in for him. He backtracks me, muttering "left foot, right, Since then, he has read there, that is where part of your shoe compressed the left, right," pitching orange sticks into the depressions. everything he can get his "I'm pretty darn sure on this," he says confidently. He hands on about the topic. sue." He asks to see the soles of my hiking boots, and measures the distance of my stride to predict where And he has taken classes

across it. His stepmother, Joanne has gone out to actually matches the bruises on the clover leaf to my the next track will lie, and.... "Oh there," he exclaims and courses with lug pattern. Man, I sure hope I don't do something bad and picks up the cell phone. "That's my reward," he experts all over

> It must be his lucky day for he has also found a including a former four leaf clover during this demo. But his success FBI agent and compares these injuries to a blade of grass that was finding the cell phone has nothing to do with luck and border patrol offieverything to do with years of study, practice and cer. training. It's all about being aware. As the famed naturalist Henry David Thoreau said, "The question is part-time employnot what you look at but how you look and whether you see."

The radio crackles. A search team that has been Emergency out all night has found the victim of a horseback riding Management, he accident down by the Rapidan River. The victim is teaches that same

Well, not really. Yesterday afternoon, Robert rode a took 14 years ago. horse on his dad's farm up by Scuffletown way, simulating a situation where a rider goes out, but the horse apparent to me comes back riderless. Instead of a body, Robert left a that that class pair of old hiking boots.

The occasion is a weekend training school for book," he says. Institute. Robert is a charter member and current write one, using training officer for this group of volunteers. "Tracking is Fuller's a perishable skill," says Robert sagely. "Either use it or outline lose it." He has set up several practice problems in springboard signcutting and tracking.

Twenty-four people from as far away as Georgia and Tennessee are spending this August weekend on down." their hands and knees peering intently at bruised clover leaves. Eight of the advanced students spent the whole night tracking the horse to the victim's body. Their reward: a pair of old hiking boots.

bit odd. They tend to talk in obscure acronyms, dress in faded hiking gear, and carry survival packs wherever they go. But if you or someone you know and/or love ever goes missing, you'll be glad that there are people who actually love doing this type of thing.

Robert Speiden, who was born and raised on this Orange County farm, caught the tracking bug ting course while attending Virginia Tech and volwith the Virginia Southwest and got hooked on it. 'This is really cool," he remem-

country, Currently, as a

of the Department of class that he first needed a text "as flesh out

In an effort to free a trapped horse, Robert opened his

arm up from elbow to wrist with an axe. Here he

awaits transportation off of Copper Mountain after a

first responder has stabilized him.

material of the course, as much as it could be written The self-published book is entitled, Foundations for Awareness, Signcutting and Tracking. But, he cautions, "Tracking is one of those skills, like many other skills, that you can't learn from a book. You can't see this in a book." He points to my foot impres-Okay, Search and Rescue (SAR) people are a little sions in the lawn.

> Robert is now called to searches all over the country. In fact during this training weekend in Orange launched their own search County, a woman went missing in Accomack, they call for help. The Robert and some of his response can sometimes students responded and be overwhelming. were directly responsible for finding the woman alive you don't have a direction and well. This is important of travel, it's an expanding to him, because back in 1996, he was a seriously direction of travel, we can injured victim himself on top of Copper Mountain in Colorado. During a family cutters can play a valuable 500-mile-long pack trip, a role, if, and that's a big 'if,' snow bridge collapsed, they can identify the victrapping a horse. In an effort to free the animal, Robert gashed himself on an axe. He rolls his arm palm up to reveal an ugly scar that stretches from the crook of his elbow to his wrist. He could have bled to death, but instead was rescued within two able to do that only about hours. The incident, for 10 percent of the time.



SARTI, which stands for Search and Rescue Training So, he decided to Dead men walking. A hagard tracking team comes back to base after following horse hoofprints all night long to an accident "victim" during original a training exercise in Orange County. Note the "dead" man's boots around the tracker's neck. That's his reward for spending the whole night on his hands and knees.

> ground pounders to grid search. I'm a strong advocate of canine resources and visual tracking resources working together."

The problem is, the people who run the searches tend to call the trackers last, when the scene has been totally trashed. "That's part of the risk," shrugs Robert.

Usually family members of the missing person have understandably effort first. Failing that,

"Basic search theory, if circle. So if we can get a narrow it down." continues Robert. That's where signtim's track that he/she made on this particular instance and separate it out from all the other tracks of friends, family members, strangers, and ground pounders.

On real live searches Robert says he's been him, rammed home the with a reasonable degree

mportance of a quick response to emergencies by

All told, Robert Speiden answered more than 100 calls to look for missing cilitated several finds. However, he is quick to point out that all searches are a team not individual. effort. He also says, "In search and rescue, tracking is just one tool in the tool box. They have canine resources; they have a helicopter;

they have visual trackers; they have what we call

estimate stride length.

of certainty. "They're all difficult, because more often than not, I am unable to pick up the sign of the misssearch and rescue ing person and follow it." But, his serendipitous awareness training and general knowledge of search and well trained volun- rescue strategy and procedure has put him in the right place at the right time on numerous occasions.

Here's just one of many examples: he was teamed up with a dog handler searching for an elderly Pennsylvania man who had not returned from his daily walk. They started out on the trail the man took in the same direction every day. But because the trail was so contaminated with other people's tracks, Robert stepped off of it, to see if he could detect where the man left the trail.

And he almost stumbled over him. The 78-year-old had been out for 36 hours. He was unresponsive to everything except pain, and "We were still within sight of the command post 150 feet away. We were still in sight of his house!" exclaims Robert. The victim had been passed by dozens of searchers, and if Robert hadn't thought to go outside the trail (envelope?), the old man might have died.

"A lot of teaching tracking is getting into what your senses are, what you're perceiving; what you're observing as opposed to what you think might happen to someone who walks through here," he comments. On the other side of the spectrum, searchers try to predict where victims will go based on where similar victims have historically gone in the past. Bob Koester has written a book called Lost Person Behavior: A Search and Rescue Guide that uses data from 50,000 searches worldwide to make some predictions. For example, in general, suicidal people will go somewhere pretty to do the deed. That, or they'll hide.

> Robert says these tools are useful, but he also jokes, "73 percent of all statistics are made up on the spot."

He turns serious. "In tracking we're not so concerned about where they might go, we want to find out where they did go...The ground is going to prove out where they went...This stuff doesn't lie: this is pure evidence." Searching is essentially finding clues that lead from the Point Last Seen (PLS) to the victim. A six foot tall man will leave 2,100 of these clues in a mile. That's how many steps he'll take. Now, try to find every single one of them. No wonder it takes hours.

"A green grass lawn like this that's six, eight inches tall, I'd put this towards the easier end. Not the easy end, not like the beach or fresh snowfall." observes



Experienced signcutter Mark Gleason demonstrates a tracking stick which is used to measure tracks and