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CITY GUIDES » HOLIDAY PLANNER			December 04, 2014
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Oh sn	ow you did	ln't	
A closer look at the icy little flakes the break, our winters. By Beth Brown Ice crystals, better known as snowflakes, make winter tale—but this is one fable founded in of Apart from perpetuating Canadianisms and a of holiday commercialism, snow is complicate and, of course, icy cool.		hat make, and	MORE BY BETH BROWN
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"It's a story of many face Libbrecht, professor of p Technology.	-	-	
The dainty crystals start two snowflakes follow th degree, collision of flurri pattern.	e same path through	n the clouds," says Li	ibbrecht. Any change in
It takes anywhere from 1 100,000 droplets of wate branches, glistening face	er vapour. Crystals te	end to be plate-like	
Though dreamy and lace ground, says Mary Anne University: "If snow beco ice—the pure ice we're u from snow, but the weig	White, professor of mes compacted with sed to seeing in our	physics and chemist o other snow eventua freezer. If you think	ry at Dalhousie ally it will form into
-			ting in the sunshine, but

Let's face it, snow can be scary. Glaciers cause shipwrecks, avalanches crush stuff. And, snow is fatally cold—a frost's bite is worse than its bark.

When it comes to snow recreation, temperature matters. When the air is dry and cold "the flakes will fall one at a time and be just a dry powder, like sugar," says White. Though, this sweet sort of snow is not generally native to Nova Scotia. Our flakes get caught up in humidity of the Gulf Stream and grow sticky and wet, clumping together as they fall from the sky. Not great for skiing but perfect for forts and snowball fights. It's a fair trade-off. "Really cold conditions like in the dry Arctic wouldn't make good snowflakes for making snowmen," says White.

East coast snow also makes for more work. Because it's more dense, it's heavy to shovel and slow to melt. In the prairies, where the air is dryer, clearing a powdery doorstep doesn't require quite so much gusto.

You can make more than snow angels with ice crystals, though. White grows ice to make ceramics in a process called freeze casting. "We take little particles of ceramic, mix it with water and freeze it, and the water grows into ice sheets," she says. "Then, we freeze dry away the ice and we're left with sheets of ceramic." The result is comparable to layers of shell. The ceramics are used to study thermodynamics and create more efficient solar cells. "Ultimately, we're using ice to make power."

Libbrecht uses snowflakes to study crystal growth. "Ice was in some ways just a convenient case study," he says. "It's cheap and easy to grow. No safety concerns."

To study the flakes he has to photograph them, because (duh) they melt. Libbrecht uses his own custom camera-microscope to shoot his crystal captives, illuminating the photos with coloured lights. His work was even used to inspire the artwork for Disney's *Frozen*. Snowflakes are most photogenic at -15 degrees, but if you don't have a snow-croscope handy a regular magnifying glass works great for getting up close and personal with Suzy Snowflake.



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