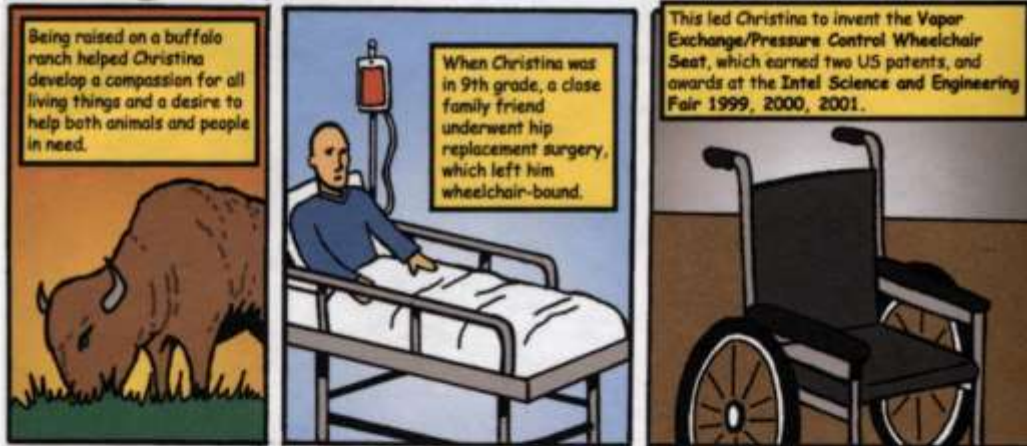


CHRISTINA ADAMS

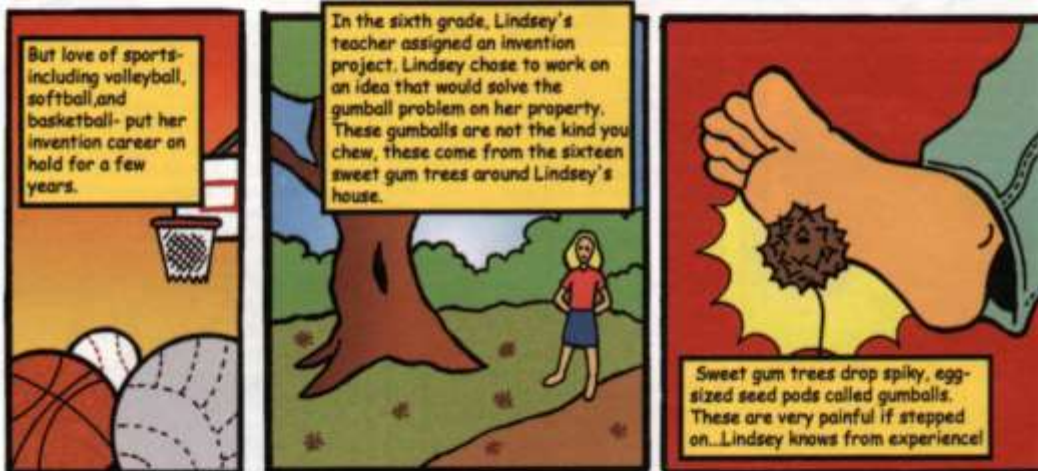
Name: Christina Adams • Home: Bartlesville, Oklahoma • School: Bartlesville High School • Invention: Vapor Exchange/Pressure Control Wheelchair Seat • Age: 16



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Lindsey ★ Clement

Name: Lindsey Clement • Home: Longview, Texas • School: Pine Tree Middle School • Invention: The Gumball Machine • Age: 12



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Hans Lee

Name: Hans Christiansen Lee • Home: Carmel, California • School: York School • Invention: Creative Spin Control, The Next Step After Anti-Lock Brakes • Age: 18

Hans Lee has been an engineer all his life. His earliest memories include taking apart his toys and reassembling them - and they still worked!

Hans is also an avid model railroad enthusiast; and in middle school he built elevated railroad tracks around the walls of his bedroom.

But Hans' interests include many areas other than science and engineering. He is on the varsity soccer team, is captain of the hockey team, and is an Eagle Scout. He also enjoys playing the trumpet.

Many of Hans' ideas for inventions come from a full-size electric car he built in 5th grade, but never quite got to work. One of those ideas evolved over the years to become...

...Creative Spin Control, the Next Step After Anti-Lock Brakes. This invention uses onboard motors controlled by microprocessors that recognize when a car goes into a spin and then pulls it back into a linear path.

The Creative Spin Control has won many prestigious invention competitions, including the Siemens Westinghouse Science & Technology Competition 2000, and the Intel Science Talent Search 2001.

Hans will attend M.I.T. in the fall where he will major in both Computer Science and Electrical Engineering.

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Elina Onitskansky

Name: Elina Onitskansky • Home: Lyndhurst, Ohio • School: Hathaway Brown School • Invention: Micro-electrochemical Sensor and Plating System • Age: 17

Elina Onitskansky was born in Odessa, Ukraine; but, because of intense anti-Semitism there, Elina's family immigrated to the United States when she was six.

According to her parents, Elina has a will of steel. Her determination helped her learn arithmetic by age 4, and master variable equations by age 8. And whenever she asked a question, it was always, "Pocheamo?" - Russian for "Why?"

In addition to her interest in science and invention, Elina is an avid volunteer and traveler. As a result, she has developed a keen interest in politics and world affairs.

While reading a newspaper article about the economic difficulties that corporations face trying to meet EPA standards, Elina determined to address the problem of water pollution in a way that would be both effective and economical.

Elina used her strong chemistry background to develop the Micro-electrochemical Sensor and Plating System, which effectively removes cadmium, copper, iron, lead, nickel, and zinc from polluted water. Elina's process has also been awarded a US Patent.

Elina traveled to Denmark in August to research her upcoming book on the Danish rescue of the Jews during the Holocaust. In college, she plans to major in Math or Science.

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Kavita Shukla

Name: Kavita Shukla - Home: Ellicott City, Maryland - School: Centennial High School - Invention: Botanical Extract-Coated Material for Preservation of Perishable Substances - Age: 16



Though she is only sixteen, Kavita Shukla has already led a very eventful life. She was born in Germany, has lived in Finland and India, and moved to the US when she was 12.



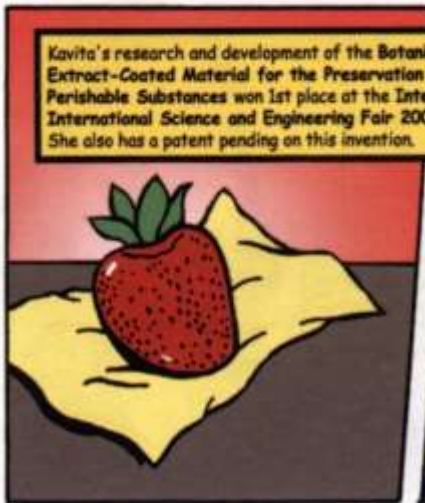
Kavita studies Indian classical dance, plays violin, is president of her high school debate club, is founder and CEO of two charitable organizations, and has already received a US patent for a previous invention.



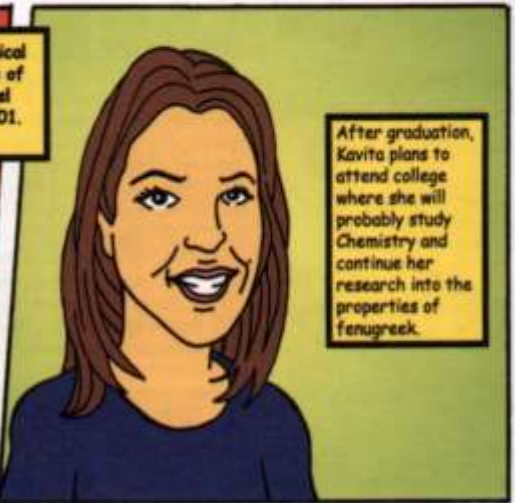
But this story begins when Kavita accidentally drank some polluted water while visiting her grandmother in India. To counteract the poison, grandma gave her a yellow powder known in India as methi.



Sure enough, Kavita did not get sick. Her curiosity about methi, scientifically known as fenugreek, led Kavita to research its properties as a safe and natural preservative and packaging material for perishable foods.



Kavita's research and development of the Botanical Extract-Coated Material for the Preservation of Perishable Substances won 1st place at the Intel International Science and Engineering Fair 2001. She also has a patent pending on this invention.



After graduation, Kavita plans to attend college where she will probably study Chemistry and continue her research into the properties of fenugreek.

Rishi Vasudeva

Name: Rishi Vasudeva • Home: Roswell, Georgia • School: Roswell High School • Invention: Biodegradable Disposable Diaper • Age: 18

For the first few years of his life, Rishi Vasudeva's parents thought he was a little crazy. He was fascinated by rocks; he was constantly unscrewing things; and he would throw away his toys and play with the packaging instead.

Over the years, however, Rishi developed a healthy interest in some normal activities, such as tennis, soccer, and piano.

In 9th grade, Rishi was assigned an invention project. As a joke, he wrote down "diapers" as his area of interest. He had no idea that the next four years of his life would be spent researching diapers.



A disposable diaper takes nearly 500 years to completely biodegrade. Rishi discovered that if the outside of the diaper were made of zein, a corn byproduct, it would biodegrade in days.

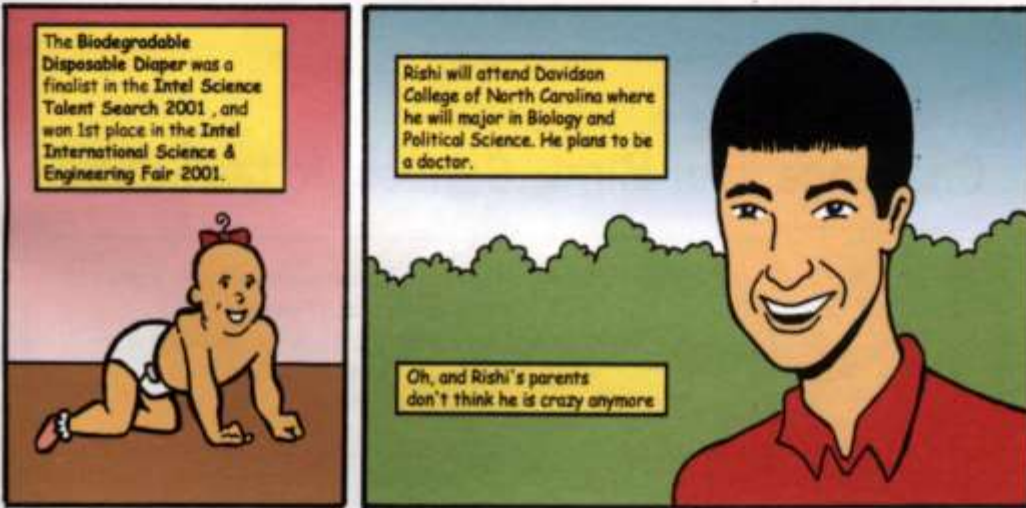
Rishi improved both the flexibility and stretchiness of zein by adding plasticizers. His diaper is also seven times cooler than present products.



The Biodegradable Disposable Diaper was a finalist in the Intel Science Talent Search 2001, and won 1st place in the Intel International Science & Engineering Fair 2001.

Rishi will attend Davidson College of North Carolina where he will major in Biology and Political Science. He plans to be a doctor.

Oh, and Rishi's parents don't think he is crazy anymore.



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