December 2009

Naturally Advanced Technologies

Safe Harbor

This presentation may include certain statements that may be deemed "forward-looking statements". All statements in this presentation, other than statements of historical facts are forward-looking statements. Forward-looking statements or information are subject to a variety of risks and uncertainties which could cause actual events or results to differ from those reflected in the forward-looking statements or information, including, without limitation, risks and uncertainties relating to: any market interruptions that may delay commencement of trading of NAT's Shares on the TSX-V, technological and operational challenges, needs for additional capital, changes in consumer preferences, market acceptance and technological changes, dependence on manufacturing and material supplies providers, international operations, competition, regulatory restrictions, and the loss of key employees. In addition, the company's business and operations are subject to the risks set forth in the company's most recent Form 10-KSB, Form 10-QSB and other SEC filings which are available through EDGAR at www.sec.gov. These are among the primary risks we foresee at the present time. The company assumes no obligation to update the forward-looking statements.

Naturally Advanced Technologies

CRAILAR® Fiber Technologies Inc.

Committed to unlocking the potential of renewable and environmentally sustainable biomass resources

CRAILAR ORGANIC FIBERS

CRAILAR ADVANCED MATERIALS

CRAILAR BIO-FUELS

CRAILAR AGRICULTURE

Incorporated in 1998; Public in 2003

Investment Highlights

- Commercializing Crailar: a disruptive technology enabling cost effective, mass production of industrial hemp
- Targeting global desire for sustainable, clean technology
- Competitive protection via 20 year “mesh fence” of exclusive global technology licenses
- Leveraging partnerships with industry leaders for manufacturing, distribution and marketing
  - Hanesbrands for knits and comfort apparel
  - GP for non-wovens
  - Leading NA pulp, paper & consumer products company: ongoing testing of consumer and dissolving pulps
  - G.J. Littlewoods & Son: organic fiber for initial production needs
  - Patrick Yarn Mills: yarns for denim, work wear & non-knit apparel
- Led by passionate, experienced team

Passionate, Experienced Leaders

Kenneth Barker	*CEO & Director*	20+ years, Head of Apparel, adidas® North America; GMM, Levi Strauss & Co. Canada, co-president of The Meriwether Group
Jason Finnis	*Co-Founder, COO & Director*	14 year industrial hemp entrepreneur, drives research & Federal Government of Canada relations
Guy Prevost	*CFO & Director*	15+ years of public and private market financial experience
Larisa Harrison	*Co-Founder, CAO & Director*	15+ years in apparel industry/ network administration; large Canadian private label fashion company
Miljenko Horvat	*Chairman of the Board*	20+ years in investment banking and private investing; President, Horvat Capital
Peter Moore	*Director*	20+ years, branding and design expert, Creative Dtr., Nike (Air Jordan, Nike Air); CEO, adidas® North America; Worldwide Creative Director, adidas AG; Runs design & branding consultancy
Robert Edmunds	*Director*	15+ years financial experience; Co-coordinated NETeller PLC's AIM listing in '04
Jeremy Jones	*Director*	VP of Koch Genesis 2007-2009; responsible for renewable fuels, biopolymers, medical textiles and advanced fibers
John Hoekman	*Advisor*	SVP, Stephens Inc., capital markets and financing activities
Lesley Hayes	*Advisor*	President, No Drama Media, founder/ principle at 3 public companies, assists with strategic business planning

Industrial Hemp – A Super Crop

Hemp is Crailar feedstock of choice

- Varies ***greatly*** from cannabis sativa (**marijuana**)
  - Plant properties differ: hemp cannot be converted to street drug
  - Used for centuries in US prior to 1937
  - Grown all over the world: UK, Europe, Eastern Europe & China
- Cellulosic fiber delivers huge advantages over organic cotton and others
  - Unlike any in forestry products, traditional apparel and organic fibers industries

+ Grows to 12 feet in 4 months:
Delivers more raw material faster

+ Grows in cold weather as far north as 62° N. latitude
Increases possible locations

+ Delivers high yield commercial crop

Lowers cost of goods sold

+ Requires only regular rainfall:
No water need for irrigation

+ Shields out weeds

+ Few natural insect enemies
No chemical fertilizer or pesticide input

+ Benefits soil & acts as a carbon sink

Provides sustainable raw materials

Industry Changing Technologies to Capture Large Market Opportunities

Crailar employs cost-effective environmentally sustainable process that increase performance characteristics

CRAILAR® Fiber Technologies Inc.		Market Opportunity	Market Size	Market Leader
CRAILAR ORGANIC FIBERS	Enzyme bath creates fiber used as an alternative to organic cotton	Casual Apparel Textile Fiber	$10 B $15 B $3 B	Hanes, Nike, Polo KLM Industry Organic Cotton
CRAILAR ADVANCED MATERIALS	Creates cellulosic pulp used to make yarns & absorbent paper	Pulp & Paper Performance App. Plastics Automotive	$100 B $10 B $100 B $210 B	P&G Adidas DuPont Toyota

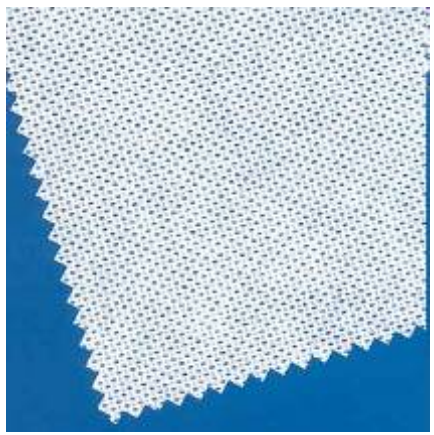
Crailar Organic Fibers

- Development agreement with the National Research Council
- Holds patent for Enzymatic Process and a pending patent for Process Equipment
- Sustainable spun-yarn and non-wovens
  - Employs simple, efficient 100% organic, enzymatic bath that can be easily constructed in any warehouse next to the crop
  - Eliminates the need for water or chemical retting
  - Superior to other processing systems which are reliant on pressure, high temperatures, and toxic chemicals
  - Uses conventional cotton-spinning equipment & existing infrastructure to enable hemp to enter the organic cotton mainstream
  - Solution for casual apparel, upholstery & luggage and non-woven applications

Excellent Test Results

Test fabrics were comprised of 20% Crailar & 80% cotton yarns

- Spinning and weaving trials at NC State University sponsored by Hanesbrands
- Trials resulted in both Knit and Woven fabrics produced on unmodified cotton machines
  - Reduced shrinkage 50%
  - Increase burst strength 45%
  - Reduced dye uptake 20%
  - Demonstrated wicking capabilities
- Superior fiber for use in Non-Woven Consumer applications



Crailar Advanced Materials

- Development agreement with the Alberta Research Council
- Holds patents for Decortication and Degumming
- Sustainable forest-free pulping
  - Delivers greatly enhanced performance features over traditional pulps
  - Pulp from hemp is stronger & more absorbent for paper, hygiene, etc.
  - High-end dissolving pulp for performance & protective apparel
    - First sustainable performance yarn on the market
    - To replace petroleum-based polyester yarn with organic alternative

Better Dissolving Pulp Characteristics

Attribute	Unit	Softwood	Crailar	Definitions
Yield	%	32 - 36	55	The quantity of pulp produced via the company's Crailar technology.
Viscosity	cm^3/g	550	786	Indicates the average degree of polymerization of the cellulose, measures a fluid's thickness, and is more optimal the higher the number.
Brightness	% ISO	90.5 - 92.0	92.8	Measures how much light a sheet of pulp will reflect, speaks to the material's whiteness, and is more optimal the higher the number.
Alpha Cellulose	%	95.5 - 96.5	98.1	Corresponds to the pulp's purity and the amount of non-cellulose impurities that exist in the pulp, and is more optimal the higher the number.
Ash Content	%	0.03 - 0.08	0.05	Speaks to the material's purity and efficiency of processing, with lower results being more optimal.
Acetone Extractives	%	0.08	0.01	Also speaks to the material's purity and efficiency of processing, with lower results being more optimal.

JDA with Georgia Pacific

- Ongoing testing and evaluation of Crailar Organic fiber with Georgia Pacific Consumer Products
- Consumer Products:
  - A multi-billion dollar market segment
  - Applications in consumer, hospital, and industrial sectors
- Agreement prohibits NAT from discussing the depth or nature of this project

Joint Development Agreement with GP Announced on June 16, 2009

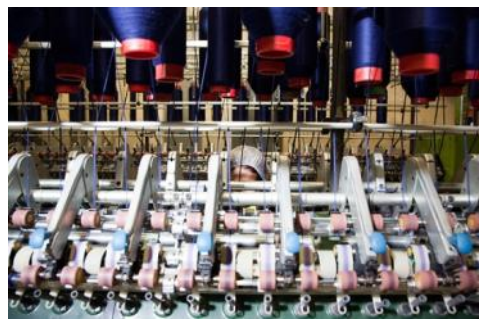
Secured Hanes JDA

- Hanesbrands Inc. (NYSE:HBI) $4B global apparel brand
  - Global consumer goods company with more than a century of history and a portfolio of leading apparel essentials
  - Brands can be found in eight out of 10 American households
  - One of the largest consumers of cotton in US
- Signed Multiphase Joint Development Agreement
  - Phase I
    - Retrofit existing dying equipment at HBI facilities
    - Produce apparel-grade Crailar Organic Fiber for use in commercial knit products
  - Phase II
    - Develop coordinated marketing plan for Crailar
    - Determine integrated commercialization plan

Joint Development Agreement with Hanesbrands Announced on Aug. 4, 2009

Establishing Relationships with Industry Leaders

- G.J. Littlewoods & Son manufacturing agreement
  - 130+ years of fiber dying & processing experience
  - Capable of processing 40,000 lbs. per week
  - Enables NAT to service Hanes, GP and Patrick Yarns to develop commercial markets for Crailar fiber
- Patrick Yarn Mills spinning agreement
  - 50 years of industry leading experience
  - Highly specialized spinning capabilities
  - Deep relationships and access to home furnishings, carpeting and industrial markets
  - NAT will co-develop with Patrick Yarns markets in denim, work wear and related apparel markets



Next Steps to Commercialization

2010

- Develop a Crailar brand to create emotional connections with consumer like Gore-Tex®, Lycra & Teflon®
- Commercialization of Hanes partnership and build Crailar marketing and brand platform to drive Organic Fibers
- Full blown production of Organic Fibers in early 2010
- Begin securing volume revenue for Crailar Organic Fibers

2009

- Deliver initial revenue from selling Crailar Organic Fibers in Q4/09
- Further Advanced Materials
  - Determine scale of decortication facilities producing fiber for pulping
  - Commercialization pursuit of pulping technology to the pulping industry
- Expand product line from knits to denim, home furnishings and non wovens
  - Produce fiber for apparel partners via agreement with G.J. Littlewoods
  - Provide testing yarns to spinning companies for home furnishings, denim and work wear markets via agreement with Patrick Yarns
- Wind down the HTnaturals apparel business

Financial Summary

- Nine Months ended Sept. 30, 2009
  - Revenue of $784,000
  - Net loss of $2.8M
  - Average monthly cash burn rate ~$125,000

- Balance sheet as of Sept. 30, 2009
  - ~$1.1M cash balance
  - 33.3M shares outstanding.

Example Organic Fibers Model*

2010

- Littlewoods: produces for the full year
- Partner/Margin: starts production in July
- Corporate Owned: starts production in July

2010	Littlewoods	Partner/Margin	Corporate Owned
Gross margin (per lb)	$0.50	$0.44	$0.52
Lbs produced per week	40,000	200,000	200,000
Weeks in production	50	25	25
Projected yearly margin	$1,000,000	$2,200,000	$2,600,000

2011

- Partner/Margin: additional facility starts production in January
- Corporate Owned: additional facility starts production in January

2011	Littlewoods	Partner/Margin	Corporate Owned
Gross margin (per lb)	$0.50	$0.44	$0.52
Lbs produced per week	40,000	400,000	400,000
Weeks in production	50	50	50
Projected yearly margin	$1,000,000	$8,800,000	$10,400,000

** For illustrative purposes only. Not to be interpreted as financial guidance.*

Key Accomplishments

2009	✓ Raised $916K to bring Crailar to commercialization ✓ Crailar Spinning & Trademark agreement with Patrick Yarns to develop markets in denim, work wear & related apparel markets ✓ Joint Development agreement with Hanesbrands Inc. ✓ Manufacturing agreement with G.J. Littlewoods to produce Crailar Organic Fibers ✓ Joint Development agreement with GP
2008	✓ Crailar Advanced Materials fluff and dissolving pulp trials with one of North America's largest pulp & paper producers ✓ Crailar Organic Fibers spin tests with Hanesbrands Inc. at North Carolina State University ✓ Crailar Advanced Materials dissolving pulp test results ✓ Crailar begins pilot testing
2007	✓ Signed global exclusive licensing agreements with NRC & ARC ✓ Crailar patent applications filed ✓ Completion of Crailar proof of concept testing
2005	✓ Raised $1.4M for ongoing Crailar development
2003	✓ NAT lists on NASDAQ OTCBB, initial raise of USD$500K

Questions

naturally, we have a better way