

Dassault Systèmes' SOLIDWORKS Drives TEAM USA Bobsled to New Speeds in Sochi

SOLIDWORKS 3D Design Software Delivers the Precision Needed to Shave Milliseconds off Bobsled Finish Times

SAN DIEGO – January 28, 2014 – [Dassault Systèmes](#) (Euronext Paris: #13065, DSY.PA), the 3DEXPERIENCE Company, world leader in 3D design software, 3D Digital Mock Up and Product Lifecycle Management (PLM) solutions today hosted the creators of the Gold Medal winning “Night Train” Bobsled, Geoff Bodine and Bob Cuneo. Speaking to an audience of nearly 5,000 of the top designers and mechanical engineers in the world at the [SOLIDWORKS World](#) Conference in San Diego, California, the duo shared their 3D design experience in the creation of the next generation bobsled, Night Train 2[®]. The 4-man bobsled will compete at the Sochi Olympics next month.

The Bo-Dyn Bobsled Project Inc. is the result of former NASCAR driver Geoff Bodine’s quest to build an American made, medal-winning bobsled. After watching the USA team struggle using discarded European sleds at the 1992 Winter Olympics, Bodine applied his high-speed racing know-how with Cuneo’s design engineering skills to create a new generation of bobsleds. The result of their collaboration led to a new bobsled design, the “Night Train,” used by the 2010 American team to win an Olympic gold medal for the first time in 62 years.

The design team turned to the SOLIDWORKS application, based on Dassault Systèmes’ 3DEXPERIENCE platform, to create a faster sled for the challenges of the Sochi Games. Bobsled speeds often exceed 90 miles per hour and races are won by hundredths of a second. Aware of the strict rules enforced by sport officials and the challenges of achieving even better race times, Bodine knew that the 2D design tool they used for the first generation Night Train would not be enough to build the world’s fastest bobsled.

The original bobsled’s aerodynamics were optimized for the fast downhill track of the Vancouver, Canada competition in 2010. The track at the Sochi Games, however, is filled with three tricky uphill sections that require precise handling to generate the most speed out of the track’s curves.

“We knew we needed an accurate and precise 3D design that could give us a realistic and cost-effective way to test and tweak Night Train 2[®] prototypes. The solution was SOLIDWORKS,” said Geoff Bodine, Bo-Dyn Bobsled Project. “SOLIDWORKS helped us design using a lighter material and creating multiple 3D prototypes of the bobsled on the computer so we could get it just the way we wanted it before we began building and manufacturing it.”

Bodine continues, “SOLIDWORKS was incredible for allowing us to experiment with the weight of the sled and how that impacts the handling of the bobsled. You win in these races by a very small amount of time and the key to winning is very small changes in design. SOLIDWORKS lets us

quickly make those crucial changes.”

The SOLIDWORKS application is so instrumental to the Night Train 2[®] team that the head engineer who travels with the team is trained on the software to facilitate quick repairs or to collaborate on adjustments to sled components.

“Bo-Dyn and their bobsled that will race in Sochi show the power of the SOLIDWORKS 3D design software application in inspiring people to create new designs and bring a vision to life,” said Bertrand Sicot, CEO, SOLIDWORKS, Dassault Systèmes. “We wish them success in the Sochi Olympics.”

###

About Dassault Systèmes

Dassault Systèmes, the 3DEXPERIENCE Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes’ collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 170,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit www.3ds.com.

CATIA, SOLIDWORKS, SIMULIA, DELMIA, ENOVIA, GEOVIA, EXALEAD, NETVIBES, 3DSWYM and 3D VIA are registered trademarks of Dassault Systèmes or its subsidiaries in the US and/or other countries.

Dassault Systèmes Press Contacts

Corporate / France	Arnaud MALHERBE	arnaud.malherbe@3ds.com	+33 (0)1 61 62 87 73
Americas	Elena FERNANDEZ	elena.fernandez@3ds.com	+1 (978) 442-2790
	Suzanne MORAN	suzanne.moran@3ds.com	+1 (617) 515-8005
EMEA	Virginie BLINDENBERG	virginie.blindenberq@3ds.com	+33 (0) 1 61 62 84 21
China	Grace MU	grace.mu@3ds.com	+86 10 6536 2288
Korea	Jahyun AHN	jahyun.ahn@3ds.com	+82 2 3270 7893
Japan	Kosuke MIWA	kosuke.miwa@3ds.com	+81 3 5442 6445
India	Seema SIDDIQUI	seema.siddiqui@3ds.com	+91 1244 577 100
AP South	Tricia SIM	tricia.sim@3ds.com	+65 6511 7954