

## ABOUT THE SHOW

Beyond All Boundaries, created exclusively for The National World War II Museum, is a unique and powerful 4-D cinematic experience available nowhere else in the world. Created and crafted with 21st-century technology and utilizing a 120-foot wide immersive screen, the production plunges viewers into the 20th-century's most titanic struggle. It tells the tale of the Greatest Generation's journey from Pearl Harbor into the fire of epic battles to America's final victory in the War That Changed the World in the words of the veterans themselves. The Museum is honored to have Tom Hanks as Executive Producer and the voices of some of Hollywood's top stars bringing to life the words of actual World War II participants and war correspondents.

True to history it is, but to appeal to the broadest possible audience -- from the Greatest Generation to Gen Y -- the Museum engaged Hollywood technicians to create a jaw-dropping experience in 4-D, a technique that engages all the audience's senses with digital effects, life-sized props, animation, and atmospheric sound as well as film and sound. Audiences will feel the tank treads rumbling across North Africa's deserts, brush snow from their cheeks during the wintery Battle of the Bulge, and flinch as anti-aircraft fire tries to bring down their B-17 on a bombing run over Nazi Germany.

Beyond All Boundaries was produced by Phil Hettema, onetime Senior Vice President, Attraction Development for Universal Studios and President of the Hettema Group. The Los Angeles-based studio specializes in crafting immersive entertainment for Hollywood movie studios and dynamic museum exhibits such as those at Chicago's Museum of Science and Industry and the Constitution Center in Philadelphia. When approached by The National World War II Museum, the heralded production team eagerly agreed to work with the New Orleans institution. The reasons were as personal as they were professional.

"From the moment we became involved with this project we knew it was a really important story to tell," Hettema said. "Most of the team had personal connections to the war. My dad flew a B-17 over Germany and practically everyone had a relative or friend who was involved in it. Beyond All Boundaries is really the story of how America came of age and became the nation we know today. It's vital we make sure the story gets told in a way that will live on for future generations."

In the quest for historic accuracy, the Museum and the Beyond All Boundaries team researched the world's great film archives to uncover rare footage. "Viewers will be excited to see that we've gone beyond the typical World War II footage," said Seth Paridon, Manager of Research Services for The National World War II Museum. Paridon and his staff spent years going through film archives to secure rarely viewed footage that has been often overlooked by filmmakers and documentarians for a truly unique experience. Leading historians, such as Don Miller, also consulted on the historic production.

This project challenged Hettema's skilled technicians to incorporate authentic props into the experience. To broadcast news of Pearl Harbor, for example, the script called for a 1940s radio. Hettema's subcontractors located a manufacturer who produced a vintage speaker pattern fabric from the World War II era to use in its construction. A concentration camp guard tower is based on the design of actual towers at Buchenwald and Auschwitz.

Other props were painstakingly researched, constructed, and then coordinated by banks of computers to merge seamlessly with the action unfolding on screen. Some even rise, literally, from the floor, hidden in an 18-foot-deep pit, or descend from the Theater's ceiling. The result is an armchair seat to history told in a way far removed from history books. And this armchair rumbles when the tanks come through.

"What the audience will see in front of them really happened," says Gordon H. "Nick" Mueller, President and CEO of The National World War II Museum. "Be it digital animation, a celebrity voiceover in the first person, or actual historical video and audio, visitors can't get any closer to the actual war experience than inside The Solomon Victory Theater."

As thrilling as Beyond All Boundaries is, the experience is only one part of the Museum's quest to educate their patrons' senses. The complex also houses the 150-seat Stage Door Canteen entertainment venue and a full-service restaurant and bar called The American Sector by Chef John Besh, a James Beard award-winning talent. All three new attractions will open on November 6, 2009.

## PRODUCTION TEAM OVERVIEW

How Beyond All Boundaries came to be made by Executive Producer Tom Hanks and Phil Hettema, former Senior Vice President, Attraction Development of Universal is as fascinating as the experience itself.

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#### **Concept, Design, and Production: The Hettema Group**

Under the guidance of 30-year industry veteran Phil Hettema, The Hettema Group's team consists of experienced designers, illustrators, master planners, architects, engineers, project managers, and producers. The Hettema Group provides full design services including program development, project analysis and feasibility, concept development, detailed design, and on-site design supervision.

The Hettema Group specializes in uniquely creative design in the world of experiential entertainment for museums, visitor centers, theme parks, and resort developments, as well as breakthrough, out-of-the box solutions –combined with top quality design for museum and exhibit design, destination resorts and parks, retail, dining and entertainment lifestyle destinations and shows, entertainment and attractions.

Their range of experience includes work for such as the Royal Hashemite Court of Jordan, Harrah's Casinos, Universal Studios (Hollywood and Orlando), Paramount Studios, the Russian Jewish Museum (Moscow, Russia), Gallagher and Associates, (Bethesda, Maryland), the Museum of Science and Industry (Chicago, Illinois), ResortsWorld (Sentosa, Singapore), Samsung's Everland (Korea) MGM Location Based Entertainment, Busch Entertainment Corporation, and Dreamworks SKG.

#### **Media Design and Production: Mousetrappe**

Pasadena, Ca.-based Mousetrappe is an experiential media design company with the technical, creative and production capabilities to design, develop, and produce world-class media experiences in shows, exhibits, facilities and attractions for theme parks, resorts, and museums. They apply an extensive grasp of current visual media creative and technical trends to find ways to break new ground with every project. Mousetrappe partners with show producers and integrators to produce best in class design, creative, and production of visual media elements integrating the complete visual media content package into the installation, event or show. Mousetrappe's team produces and installs projects internationally.

#### **Lighting Design: Visual Terrain**

Visual Terrain, Inc. is an international design firm serving the architectural, entertainment and television markets. Their vision is to enrich the human experience and quality of life using the visual environment to evoke emotional response. Their mission is to lead in design excellence; explore, encourage, and expand technology through the thoughtful application of design principles and our environmental consciousness. Visual Terrain's projects include lighting designs for casinos, resorts, restaurants, theme parks, museums, retail, concerts, television, live shows and special events as well as more traditional architectural spaces such as libraries and educational facilities. Other specialties include theatre consulting, developing park-wide lighting and dimming standards and specifications for major theme parks and performance system design.

#### **Audio Visual Design and Control: Electrosonic**

Electrosonic is a worldwide audio-visual company that operates in three ways: as a systems integrator, as a product manufacturer, and as a service provider for AV facilities. Founded in 1964, Electrosonic has always been among the first to apply new technology to create tailored, state-of-the-art solutions that meet the challenges of the professional AV market. Electrosonic's system integration business has a strong reputation for working on complex projects, both large and small, and has through its 40 year history developed lasting partnerships with customers and suppliers. Electrosonic brings a unique breadth of experience to each project, backed by solid engineering skills, project management and quality production facilities. Many of their projects have been recognized with key industry and sector awards. Today Electrosonic operates on a worldwide basis with a staff of more than 400 people and principal offices in the USA, the UK, Finland, Sweden, China and the United Arab Emirates. The operational headquarters is located in Burbank, California.

#### **Show Action Equipment Design and Fabrication: LA ProPoint**

LA ProPoint was started in 2002 by Mark Riddlesperger to offer a wide range of technical skills and fabrication services with a primary focus on safety, quality and service. Mark started his career in 1980 in a variety of entertainment industries. He holds an MFA degree in technical theatre and has working experience in scenery construction, welding and fabrication, lighting systems design and installation, as well as show systems and show control for theatres, theme parks, trade shows, film and television. LA ProPoint is affiliated or members of the following organizations: Better Business Bureau, TEA, IAPPA, Ironworkers Local 433, California Chamber of Commerce and the California State Contractors Board.

#### **Special Effects: Rando Productions**

Joe Rando has more than 18 years of production, design, and fabrication experience in the entertainment industry, including full automation of many major mechanical pieces; movie and advertisement special effects, theme park projects for Disney, MCA, and Universal, attraction rehabs and mock-ups. Rando Productions has designed and crafted many state-of-the-art electro-fluid power systems including show action equipment for many US as well as international theme parks and events.

#### **Lighting Integration: Bandit Lites**

The only lighting company to have won Lighting Company of the Year in both America and Europe in the same year, Bandit Lites is a global leader in the entertainment lighting marketplace. From touring productions to fixed installations, Bandit Lites has a full staff of highly trained professionals to deal with all types of lighting needs.

**Technical Direction and Coordination: It's Alive Co.** Established in 1995, It's Alive Co. is a consulting firm providing design expertise to the entertainment destination and entertainment real estate development industries. It's Alive clients include theme parks, museums, RD&E (retail, dining & entertainment districts, such as Universal CityWalk), casinos and corporate visitor centers. It's Alive consulting services include project management, technical direction and production management. The company is an active member of the Urban Land Institute, the International Association of Amusement parks and Attractions, the Themed Entertainment Association, the International Council of Shopping Centers, and the World Gaming Congress.

[CLICK HERE TO VIEW THE PRODUCTION CREDITS](#)



nationalww2museum.org

**BEYOND ALL BOUNDARIES**

a presentation of

**The National World War II Museum**

NARRATED BY

**TOM HANKS****Featuring the voices of**

ADAM BEECH	PVT. IRA HAYES 2ND LT. DANIEL INOUYE
KEVIN BACON	ROBERT SHERROD, TIME MAGAZINE CORRESPONDENT
CORBIN BLEU	EDDIE W. ROBINSON SGT. DAN LEVIN
PATRICIA CLARKSON	MARGUERITE HIGGINS NEW YORK HERALD TRIBUNE CORRESPONDENT
KEVIN CONNOLLY	DONALD SANBORN PVT. RAYMOND HOWELL
JAMES CROMWELL	MAJOR GENERAL ALEXANDER ARCHER VANDEGRIFT FLEET ADMIRAL WILLIAM HALSEY
BLYTHE DANNER	ELSA MAXWELL, NEW YORK POST COLUMNIST
VIOLA DAVIS	HORTENSE JOHNSON, ARSENAL WORKER
JESSE EISENBERG	LT. FISKE HANLEY SGT. BENJAMIN MCKINNEY
JENNIFER GARNER	KATE GRANT, SHIP WELDER CAROL LYNN HEGGEN, RED CROSS VOLUNTEER
JOHN GOODMAN	CAPT. EDWIN SIMMONS
NEIL PATRICK HARRIS	1ST LT. DAVID HETTEMA SGT. WILLIAM MANCHESTER
JAY HERNANDEZ	MANUEL CASTRO VARA LT. J.T. SHEA
EMILE HIRSCH	PVT. DON JACKSON BENEDICT CORP. GORDON CARSON
KEVIN JONAS	MIKE MERVOSH
TOM KANE	EDWARD R. MURROW, CBS NEWS CORRESPONDENT
JUSTIN LONG	CORP. JAMES R. GARRETT SGT. JOHN H. MORRIS
TOBEY MAGUIRE	PVT. GEORGE STRANG
JOSEPH MAZZELLO	PVT. EUGENE B. SLEDGE
PAUL MCCRANE	PVT. KURT VONNEGUT
DARAN NORRIS	1940'S NEWSCASTER
WENDELL PIERCE	SGT. THOMAS MCPHATTER
CHRIS PINE	HANSON BALDWIN, NEW YORK TIMES MILITARY EDITOR SGT. BILL REED
BRAD PITT	SGT. BILL MAULDIN EDITORIAL CARTOONIST, STARS AND STRIPES
GIOVANNI RIBISI	2ND LT. PAUL FUSSELL
WILLIAM SADLER	LT. COLONEL LEWIS B. "CHESTY" PULLER
HANS SCHOEBER	JOSEPH GOEBBELS, REICH MINISTER PROPAGANDA HERMANN GOERING, REICHSMARSCHALL

SAB SHIMONO	JAPANESE PRIME MINISTER KONOE FUMIMARO
GARY SINISE	ERNIE PYLE, CORRESPONDENT, SCRIPPS-HOWARD NEWS SERVICE
ELIJAH WOOD	CORP. WILFRED HANSON CPTN. JOHN C. CHAPIN

**Production Credits**

EXECUTIVE PRODUCER	TOM HANKS
PRODUCER	THE NATIONAL WORLD WAR II MUSEUM DR. GORDON "NICK" MUELLER
CONCEPT, DESIGN & PRODUCTION	THE HETTEMA GROUP
SHOW PRODUCER, CREATIVE DIRECTOR	PHIL HETTEMA
WRITER	CHRIS ELLIS
HISTORICAL CONSULTANTS & CO-WRITERS	DR. GORDON "NICK" MUELLER DR. DON MILLER HUGH AMBROSE
DIRECTOR	DAVID BRIGGS
MUSIC COMPOSER	BRUCE BROUGHTON
PROJECT DIRECTORS	THE NATIONAL WORLD WAR II MUSEUM BOB FARNSWORTH THE HETTEMA GROUP ANTHONY PRUETT
ASST. TO TOM HANKS	ALLISON DIAMOND

**RESEARCH TEAM**

THE NATIONAL WORLD WAR II MUSEUM	SETH PARIDON TOM CZEKANSKI JOEY BALFOUR TOMMY LOFTON
THE HETTEMA GROUP	DIANA CIMADAMORE LAURA COLON CORRINE CUNNINGHAM

**MEDIA PRODUCTION**

PRODUCER	DOUG YELLIN
PRODUCTION DESIGN	DAREN ULMER
ASSOC. PRODUCER	SUSAN BETH SMITH
VISUAL EFFECTS/POST PRODUCTION	MOUSETRAPPE, INC
MUSIC SCORING AND CONDUCTING	TIM WILLIAMS
SOUND DESIGN AND PRODUCTION	BOB WACKERMAN PAUL FREEMAN AUDIO BY THE BAY LLC.
ART DIRECTION	Yael PARDESS

**THEATRICAL PRODUCTION**

SCENIC DESIGN	DANIEL IONAZZI
LIGHTING DESIGN	STEVEN YOUNG, LISA PASSAMONTE GREEN, MICHAEL MAHLUM VISUAL TERRAIN LLC
AUDIO SOUND	

DESIGN PAUL FREEMAN

TECHNICAL SUPERVISION BOB CHAMBERS / IT'S ALIVE CO.

TECHNICAL MANAGER SUSAN CUMMINGS

#### TECHNICAL AND PRODUCTION CREDITS

3D ANIMATION JASON MCKINLEY / RADICAL 3D

LEAD COMPOSITOR CEDAR CONNER

MEDIA PRODUCTION MATILDA PRODUCTION SERVICES, INC

TECHNICAL PRODUCTION & SPECIAL EFFECTS L.A. PROPOINT, INC.  
ELECTROSONIC SYSTEMS, INC.  
SOUNDWORKS  
BANDIT LIGHTING  
RANCO PRODUCTIONS, INC.  
ARTISTIC ENTERTAINMENT SERVICES, LLC

#### ADDITIONAL PRODUCTION CREDITS

CONSULTANT PROJECT DIRECTOR LISA NASH

INSTALLATION PROJECT MANAGEMENT JUDD NISSEN

PROJECT COORDINATION MATT SWEENEY

SITE COORDINATION CURTIS PORSCHE

PRODUCTION DEVELOPMENT GEORGE WIKTOR  
GUS STONE

CONCEPT PRODUCTION DESIGN JEROME SIRLIN

CASTING SERVICES KALMENSON & KALMENSON, INC.  
GUS STONE

SAG SIGNATORY KABUKI PRODUCTIONS, INC

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