

HOCKEY: FASTER THAN EVER

EXHIBITION OVERVIEW

CCM



FLYING FISH



OVERVIEW

HOCKEY: Faster Than Ever takes visitors through the evolution of ice hockey, highlighting the remarkable technological advancements and scientific breakthroughs that have shaped the sport over time and how science is behind every thrilling moment on the ice.

Throughout the exhibition, visitors will experiment with hands-on, engaging interactives like testing their slapshot speed and reaction time. Innovative displays showcasing historical artifacts and reproductions alongside state-of-the-art equipment are also presented.

The exhibition also highlights the inclusivity of hockey as a sport for everyone. It features displays, interactive features, multimedia presentations, and written content representing individuals of diverse backgrounds, including people of color, women, and those with various abilities.

OVERVIEW

- 1: Origins
- 2: Rules of the Game
- 3: Performance and Science
- 4: Stars
- 5: Tunnel
- 6: Science Lab
- 7: Leagues
- 8: Hometown Heroes

HIGHLIGHTS

- Snap a selfie with a real ice resurfacers
- Player Card stations paired with interactives to track player stats
- Innovative displays of hockey objects, artifacts, and state-of-the-art equipment from CCM
- Immersive multimedia experiences
- "Ice rink" housing the Science Lab hands-on interactives



ORIGINS

This section provides an overview of the origins, historical development, and evolution of ice hockey, up to the modern era.

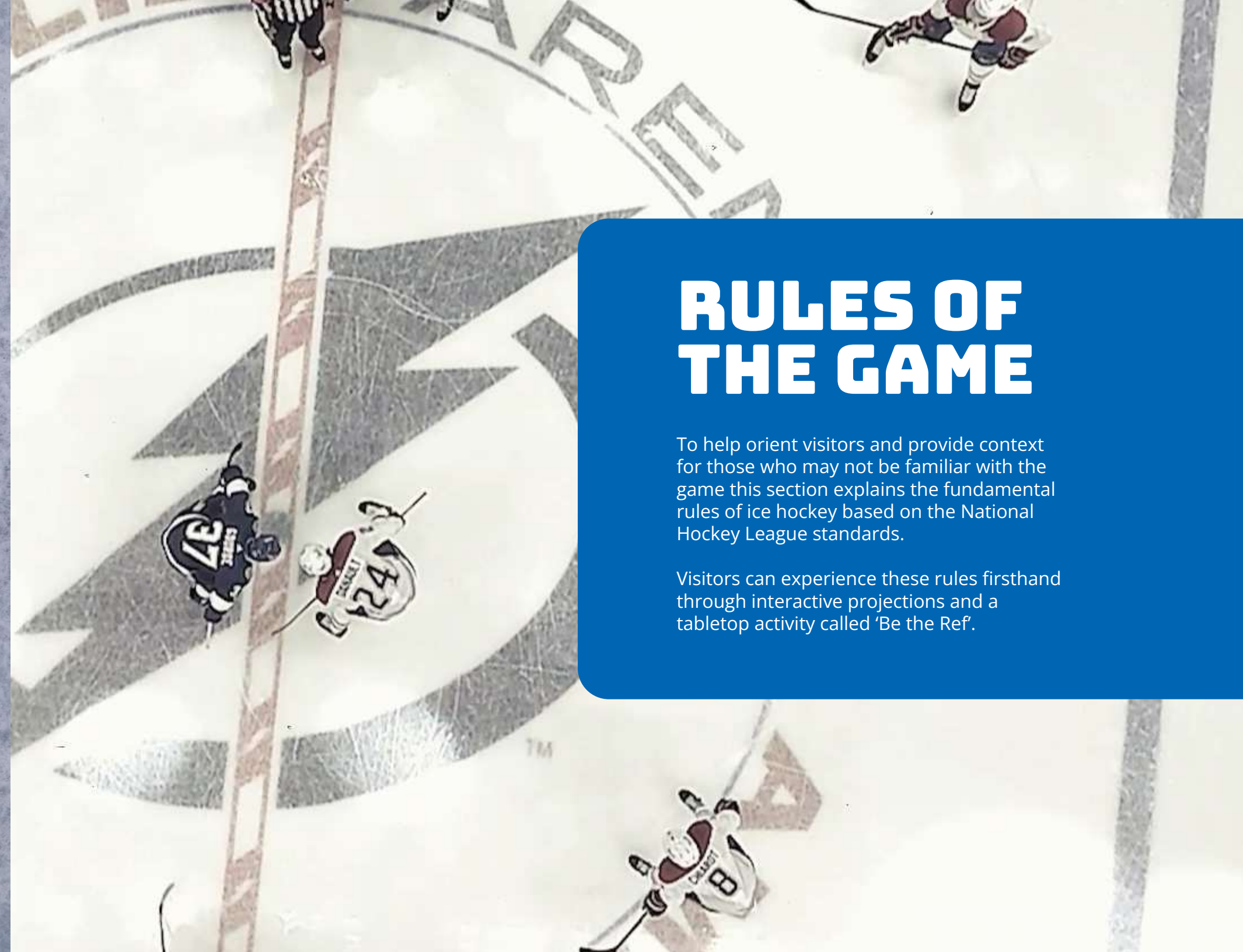
It digs into the history of similar ball and stick games in ancient Europe and examines the influences of sports like lacrosse, hurling, and rugby on the development of ice hockey.

Visitors will discover the birthplace of hockey: Canada, and learn about significant milestones and "firsts" in the history of ice hockey.

ORIGINS

In this section, visitors can view rare artifacts and reproductions, providing a glimpse of the remarkable evolution that has shaped the sport into what it is today.

The exhibition also features a collection of historical film clips and images, including the first motion picture of a hockey game filmed by Thomas A. Edison in 1898, offering a fascinating look into the sport's early days.



RULES OF THE GAME

To help orient visitors and provide context for those who may not be familiar with the game this section explains the fundamental rules of ice hockey based on the National Hockey League standards.

Visitors can experience these rules firsthand through interactive projections and a tabletop activity called 'Be the Ref'.



PERFORMANCE & SCIENCE

This section features a historical overview of ice hockey gear and its evolution over time. By comparing older and more modern equipment, visitors can observe how scientific advancements have played a pivotal role in accelerating the sport, ultimately making it faster than ever.

Using basic physics concepts, visitors learn how changes to gear have prioritized player safety and optimizing speed. The science behind player performance is also explored, including player health and adaptations

PERFORMANCE & SCIENCE

INTERACTIVES

STICK FLEX

Inside a pedestal, five different sticks are displayed. Visitors can explore concepts of force and stick flex by pressing a pedal with their foot on each stick. Additionally, tips on selecting the appropriate stick for individual players are presented alongside this interactive.

ADAPTIVE STICKS

Sled hockey adaptive sticks are affixed to a graphic panel for visitors to touch and examine. Sharp picks used in sled hockey are safely enclosed in a small display case.

MEASURING UP

A to-scale graphic is presented, depicting the heights of the NHL's tallest and shortest players, allowing guests to compare their own heights to those of NHL players. The shorter player is drawn as a woman.



PERFORMANCE & SCIENCE

INTERACTIVES

SLICK AS ICE

Large pucks slide along two tracks, the goal being to stop in a target area to earn points. These tracks resemble a hockey rink, complete with boards. Each track has different surfaces to illustrate the differences between smooth and rough ice and how friction affects the puck's movement.

BALANCE OF POWER (X3)

Try out balance boards designed to test balance, core strength, agility, and mobility while performing various training exercises or climb into an adaptive sled. To ensure safety, we've implemented protective rails and padding around both the balance boards and the sled to minimize the risk of injuries.



STARS

The Stars section of the exhibition centers on hockey's exceptional players and the qualities that set them apart. It also explores various scientific concepts that contribute to a player's excellence in their specific position.

For the fans, lockers are equipped with authentic hockey gear and jerseys identical to what these star players use.

An interactive called *Building a Star* lets visitors use a touchscreen to create a player by adjusting parameters like height, weight, skills, nutrition, and exercise routines. After selecting all attributes, a complete 'Star' is generated with characteristics matching those of a forward, defenseman, goalie, or coach.



TUNNEL

In this area, visitors get to step into the metaphorical skates of a player as they rise through the ranks, and they can feel the excitement of the pre-game energy before hitting the ice.

Wall projections and immersive audio provide a guided experience, leading visitors through the tunnel and immersing them in the sensation of stepping onto the rink.



SCIENCE LAB

After exiting the tunnel, visitors will discover the Science Lab. This unique space is designed to resemble an actual ice hockey rink, complete with authentic boards, a Jumbotron, a penalty box, and seating for fans.

Visitors can engage in numerous hands-on interactives and challenges that allow them to apply the concepts they learned in the previous section. The interactive experiences in this area revolve around physics-based science concepts - topics like angles, power, speed, friction, momentum, and force.



SCIENCE LAB

INTERACTIVES

SHUTOUT STREAK

Be a goalie using arcade-style game buttons. This interactive demonstrates math, angles, agility, reaction time, and hand-eye coordination.

DON'T BLINK

Test your reaction with a set of randomly lit buttons; see how many you can press in 60 seconds. This interactive tests reaction time from both a player's and a goalie's perspective.



SCIENCE LAB

INTERACTIVES

THE NEED FOR SPEED

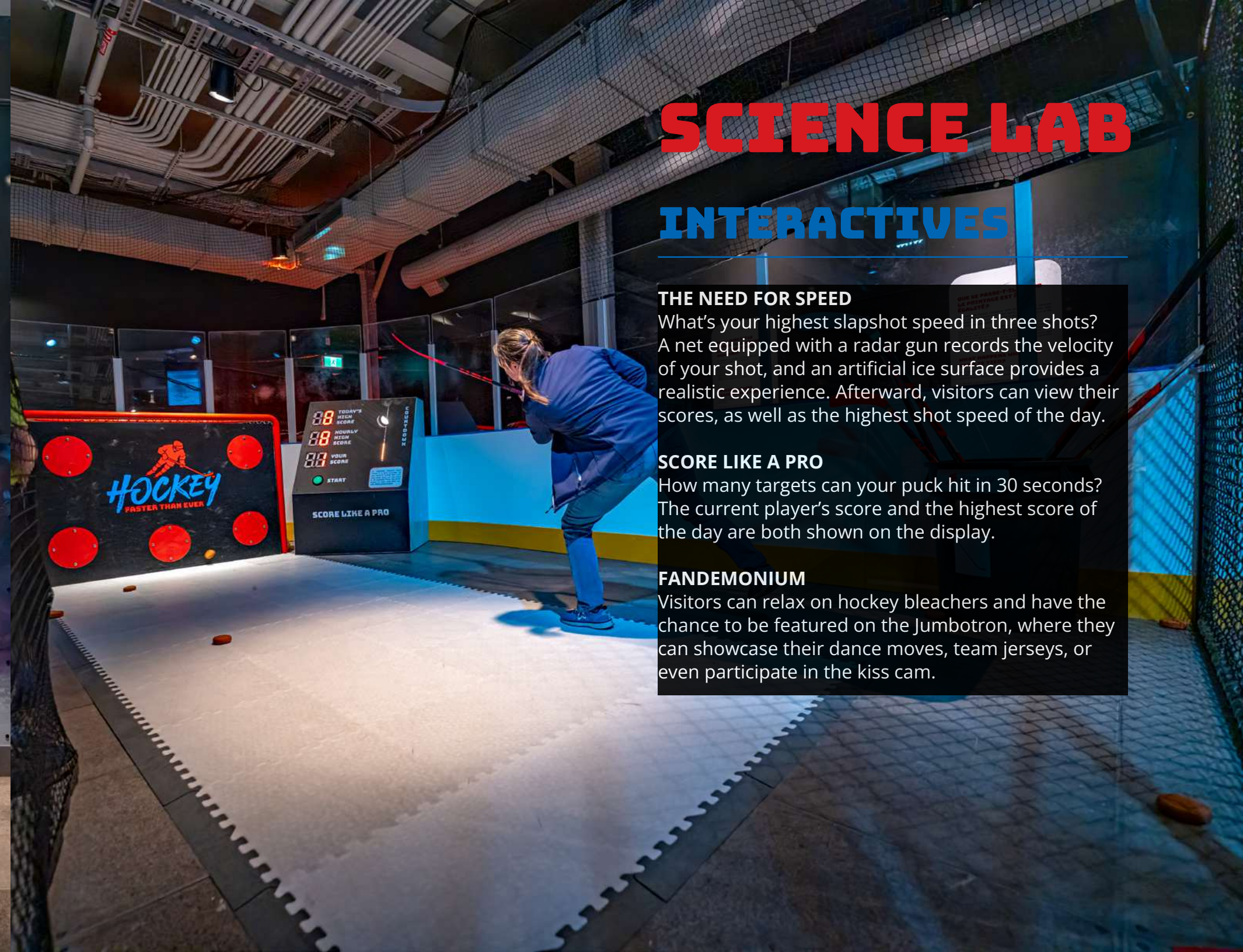
What's your highest slapshot speed in three shots? A net equipped with a radar gun records the velocity of your shot, and an artificial ice surface provides a realistic experience. Afterward, visitors can view their scores, as well as the highest shot speed of the day.

SCORE LIKE A PRO

How many targets can your puck hit in 30 seconds? The current player's score and the highest score of the day are both shown on the display.

FANDEMONIUM

Visitors can relax on hockey bleachers and have the chance to be featured on the Jumbotron, where they can showcase their dance moves, team jerseys, or even participate in the kiss cam.



SCIENCE LAB

INTERACTIVES

BREAK OUT

In this interactive, visitors aim to pass a puck to their teammate. As you advance through the levels, the game becomes more challenging with the addition of more opponents and different angles. To take a shot, use the touchscreen to pull the puck back and aim it towards your teammate. Then, let go and see if your shot is a hit or a miss.

PENALTY BOX BLUES

This interactive invites visitors to step into the penalty box, giving them a taste of what it's like to be in the 'sin bin.' When you sit in the penalty box, your image appears on the Jumbotron, making it an excellent opportunity for a memorable photo.

JUMBOTRON

Four rear-projections display content in the *Penalty Box Blues* and *Fandemonium* areas. When other interactives are not in use, these projections showcase highlights, hockey chants, and a traditional scoreboard.



LEAGUES

After exiting the Science Lab, visitors learn a brief history of the NHL and have a photo op with an interactive display of the Stanley Cup.

Additional leagues are discussed, to illustrate the potential for great achievements across the board and to further showcase hockey's amazing players.

Visitors learn about the history of Lord Stanley's Cup, as well as the National Hockey League, women's leagues, Olympics, and adaptive leagues.

INTERACTIVES

THE STANLEY CUP®

Get up close with the cup, touch the screen, spin the cup, zoom in, take a look at the teams, and players' names. This is a great way for visitors to get a photo with the Stanley Cup.



HOMETOWN HEROES

Additional space can be allocated to local content, in a section called *Hometown Heroes*. Flying Fish will assist in coordinating with the NHL to incorporate elements specific to local teams. Additional content and games are included to maximize fun.

Visitors will discover traditions, superstitions, and the various ways fans from around the world celebrate the game and its players.

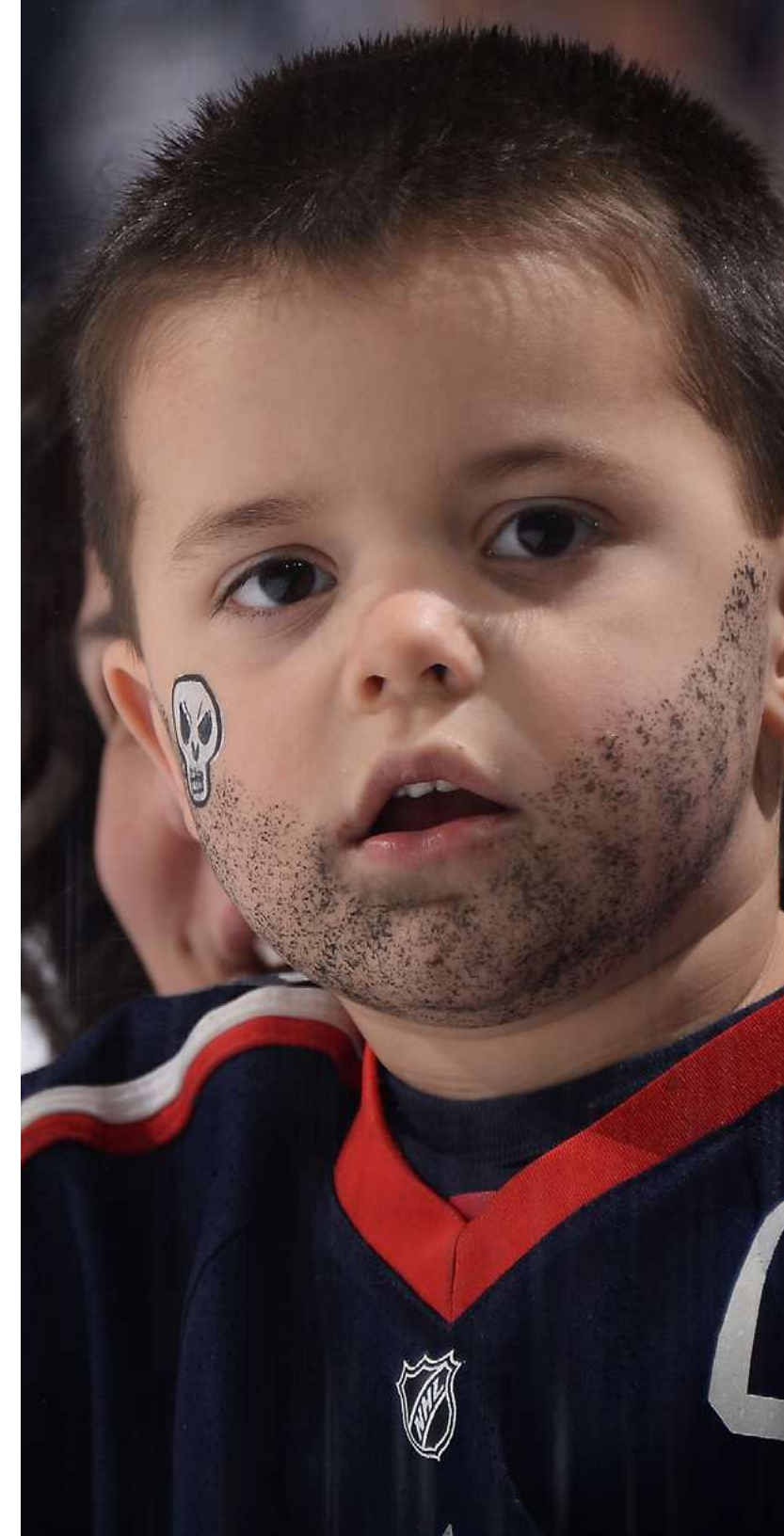
INTERACTIVES

HOCKEY GAMES

Two touchscreen air hockey tables, and a Super Chexx PRO bubble hockey table.

EDUCATION CART

Supplemental educational cart developed by the Montréal Science Centre, including a comprehensive group-quiz showdown, photo ops, and hands-on activities.



COLLABORATORS:

HOCKEY: Faster Than Ever is an exhibition produced and toured internationally by Flying Fish in collaboration with the Montréal Science Centre, supported by the NHL and the NHLPA.

About Flying Fish:

A leading creator of traveling exhibitions, Flying Fish collaborates with top museums and science centers to produce extraordinary and influential experiences. Flying Fish exhibitions have impacted millions of visitors, from Melbourne to New York, generating sustainable income for their clients and inspiring fans around the globe.

For Museums. By Museums.
flyingfishexhibits.com

About the Montréal Science Centre:

An institution totally dedicated to science and technology, The Montréal Science Centre is known for its widely accessible, interactive approach and its focus on innovation and local talent, in a setting that is both educational and fun. Recognized for its educational programs, the Science Centre has helped introduce more than 2 million school children to the world of science and has collaborated with teachers tasked with transmitting knowledge. The Montréal Science Centre operates with the mandate to help visitors of all ages discover, understand and appropriate science and technology for use in building their future.
montrealsciencecentre.com



ADDITIONAL SUPPORT BY:

About the National Hockey League (NHL®):

Founded in 1917, consists of 32 Member Clubs. Each team roster reflects the League's international makeup with players from more than 20 countries represented, all vying for the most cherished and historic trophy in professional sports – the Stanley Cup®. Every year, the NHL entertains more than 670 million fans. The League broadcasts games in more than 160 countries and territories. The NHL is committed to building healthy and vibrant communities through the sport of hockey by increasing youth participation and engagement; fostering positive family experiences; promoting inclusion, positive culture and leadership; and supporting sustainable community impact. For more, visit NHL.com.

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About the National Hockey League Players' Association (NHLPA®)

The NHLPA is comprised of the 750 players in the NHL, and manages marketing, licensing, and collective bargaining for all players. The NHLPA supports *HOCKEY: Faster Than Ever* through licensing and player usage rights.
nhlpa.com

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EXPERT PANEL:

Alain Haché:

Professor of physics and astronomy
Université de Moncton, Canada and
author of *The Physics of Hockey* (2002), and
Slap Shot Science: A Curious Fan's Guide to Hockey (2015).

Dr. David J. Pearsall:

Associate Professor (retired active) McGill
University Department of Kinesiology &
Physical Education and Director of the Ice
Hockey Research Group

Carl Lavigne:

Historian and Archivist of the Montréal
Canadiens and translator for the Hockey
Hall of Fame.

Pierre Allard:

Assistant Coach for the Munich Red
Bull Hockey Team and former Sports
Science and Performance Director for the
Montréal Canadiens.



BOOKINGS

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SPECS

Space Required:

6,000 - 10,000 sq. ft.

Target Audience:

Families with children, adults,
school groups

Minimum Ceiling Height:

10 ft. throughout;
14 ft. for Jumbotron

Production Time:

Ten (10) days for installation;
seven (7) days for deinstallation

Freight:

Four (4) 53 ft. trailers