

**iEXCEL<sup>SM</sup>**  
Annual Report

July 2020–June 2021



# **iEXCEL Vision**

Improving Human  
Performance  
& Effectiveness  
in Health Care.

# iEXCEL Executive Summary



**Pamela Boyers, PhD**  
Associate Vice Chancellor  
Clinical Simulation, iEXCEL

As we entered the second year of operations in the Davis Global Center, preparations were well underway to celebrate the dedication of this world-class training and research facility. Thanks to the creativity of our colleagues from the NU Foundation and Strategic Communications, a series of virtual events was created to mark this important milestone. These events gave us wonderful opportunities to recognize the many who had given so generously of their time and resources to ensure the Davis Global Center was aesthetically stunning and supported by cutting edge technologies.

As I reflect on the past year, it is extremely important to highlight and give thanks to the incredible commitment of the iEXCEL team. This multidisciplinary group of simulation technicians, computer scientists, artists, content creators, graphic designers and business experts selflessly kept the Davis Global Center safely up and running throughout the pandemic. It was their absolute commitment to our faculty and students that made the year so successful. Throughout this academic year, the team continued to mature and expand their skills as “teams within a team.” Hence, a wide range of educational offerings emerged, resulting in novel experiential learning, new visualization models and live virtual broadcasts. Additionally, the team hosted significant and served as a key tool for recruitment and retention. Community outreach was also a major focus for iEXCEL as the team became involved in many STEM activities for local schools and nonprofit organizations. Due to the efforts of each person in iEXCEL, exceptional administrative support, and partnering with innovative faculty and students, the adoption of simulation surged.

With the academic mission well underway, we purposefully began to focus on building the operational infrastructure. To fulfill the iEXCEL vision — *improving human performance and effectiveness in health care* — we are creating a unique data capture system that measures educational and training outcomes, community engagement activities and statewide outreach, as well as track the financial return on the significant investment.

We close out this academic year with pride of accomplishment and extreme gratitude to all who saw the potential of iEXCEL in transforming the learning environment for our students, faculty and clinicians. The future looks bright indeed for this new model of health professions education!

With sincere thanks,

A handwritten signature in black ink, which appears to read "Pamela Boyers". The signature is fluid and cursive.



## iEXCEL Team

### Leadership

**Pamela Boyers, PhD**

*Associate Vice Chancellor, Clinical Simulation, iEXCEL*

**Benjamin Stobbe, MBA, RN**

*Assistant Vice Chancellor, Clinical Simulation, iEXCEL*

### Administration

**Frank Bogatz, BSBA**

*Director, Business Operations*

**Michael Hollins, MA**

*Director, Community & Business Engagement*

**Asit Misra, MD**

*Simulation Research Scientist*

**Elisabeth Barrett, MPA**

*Program Associate*

**Alex Erlandson, MS**

*Program Coordinator, iEXCEL Senior Administration*

**Beverly Luma, BMS**

*Administrative Program Associate, iEXCEL/IPE*

**Camilla Luma, BS**

*Administrative Program Associate*

**Amber Mekush-Harter, BS**

*Program Associate*

**Jennifer Tworek, BS**

*Administrative Associate II*

## SIM-NE

**Douglas Dekker, BS, NRP**  
*Program Manager, SIM-NE*

**Lori Cooley**  
*Program Associate, SIM-NE*

**Meg Davis, BS**  
*Assistant Manager, Administration/SIM-NE*

**CJ Prewitt, NRP, EMS-I**  
*Northeast Regional Coordinator  
Lead Instructor, SIM-NE*

**Robby Rhembrandt, NRP, EMS-I,  
FP-C, CCP**  
*Western Regional Coordinator  
Lead Trainer, SIM-NE*

**James Staab, Paramedic**  
*Central Regional Coordinator  
Lead Instructor, SIM-NE*

## Visualization

**Christine Allmon, BS**  
*Director, Visualization Program & Academy Operations*

**Bill Glass, MS**  
*Artistic Director, iEXCEL Visualization*

**Brian Curtis, BA**  
*3D Animation Visualization Specialist*

**Paul Dye, BFA**  
*Graphic Arts Visualization Specialist*

**Wesley Fisher**  
*3D Generalist – Basic*

**Maria Holloway**  
*Production Assistant*

**Neil Humphrey**  
*UX Designer*

**Anthony Lanza, BS**  
*3D Generalist I*

**Duc Le, BS**  
*Web Developer*

**TJ Nuckolls, BS**  
*3D Generalist I*

**Nate Ryan**  
*3D Generalist I*

**Dheeraj Varandani, BFA**  
*3D Generalist I*

**Jeremiah Wilt**  
*Computer Programming Specialist*

## Advanced Simulation

**Jenni Bouckhuys, BMS**  
*Surgical Simulation Program Supervisor*

**Sarah Kriss, BS**  
*Advanced Human Simulation Program Supervisor*

**Samantha Rogers, MSA, CHSOS**  
*Clinical Simulation Program Supervisor*

**Anthony Bradner, MPH, RRT**  
*Advanced Simulation Specialist*

**Austin Brake, ASEMS, EMS-1, NRP**  
*Advanced Simulation Specialist*

**Tabitha Mora**  
*Advanced Surgical Simulation Specialist I*

**Andrew Oxtoby**  
*Advanced Simulation Specialist*

**Randi Peavy**  
*Advanced Surgical Simulation Specialist II*

**Jeff Whannell**  
*Advanced Simulation Specialist*

# iEXCEL Oversight & Governance

The iEXCEL Advisory Board, Executive Committee & Strategic Advisory Group provide critical insight & visionary leadership in bringing this transformational project to life.

**Advisory Board** meets quarterly; provides oversight and guidance of iEXCEL and the Davis Global Center with a focus on fundraising, sustainability, business development and community relations.

## BOARD MEMBERS

**Mogens Bay**

*Chairman, Valmont Industries, Inc.*

**Jeffrey P. Gold, MD**

*Chancellor, University of Nebraska Medical Center & University of Nebraska at Omaha*

**Paul Hogan**

*Co-Founder & Chairman, Home Instead Senior Care*

**James Linder, MD**

*Chief Executive Officer, Nebraska Medicine*

**Susan Morris**

*President, Heritage Services*

**Walter Scott, Jr.**

*Chairman Emeritus, Peter Kiewit Sons', Inc.*

**Michael Yanney**

*Chairman Emeritus, The Burlington Capital Group, LLC*

**Executive Committee** meets monthly; provides strategic oversight for the iEXCEL business mission, including budget, business development opportunities and expansion of programmatic delivery. The Committee ensures successful growth for iEXCEL in the development of educational and business applications for simulation and visualization.

## COMMITTEE MEMBERS

**Jennifer Bartholomew**

*Director, Facilities Planning & Construction, University of Nebraska Medical Center*

**Pamela Boyers, PhD**

*Associate Vice Chancellor, Clinical Simulation, iEXCEL, University of Nebraska Medical Center*

**Jeffrey P. Gold, MD**

*Chancellor, University of Nebraska Medical Center & University of Nebraska at Omaha*

**Ken Hansen**

*Associate Vice Chancellor & Director, Campus Facilities, University of Nebraska Medical Center*

**Amy Jensen**

*Executive Director, Healing Arts Program, Business & Finance, University of Nebraska Medical Center*

**Christopher Kratochvil, MD**

*Associate Vice Chancellor, Clinical Research, University of Nebraska Medical Center*

**Bill Lawlor**

*Assistant Vice Chancellor, Business & Finance, University of Nebraska Medical Center*

**Doug Ewald**

*Vice Chancellor, Business, Finance & Business Development, University of Nebraska Medical Center & University of Nebraska at Omaha*

**Bill O'Neill**

*Director, Public Relations, University of Nebraska Medical Center*

**Cindy Smith**

*Smith, Bourne & Associates*

**Benjamin Stobbe**

*Assistant Vice Chancellor, Clinical Simulation, iEXCEL, University of Nebraska Medical Center*

**Amy Volk**

*Senior Vice President, University of Nebraska Foundation*

**Michael Yanney**

*Chairman Emeritus, The Burlington Capital Group, LLC*

**Lisa Roskens**

*Chief Executive Officer, The Burlington Capital Group, LLC*

**Strategic Advisory Group** meets monthly; engages UNMC vice chancellors, deans and leaders, including representation from the University of Nebraska Foundation and Nebraska Medicine. This group provides insight and strategic direction to ensure iEXCEL serves as a meaningful, interprofessional and experiential resource for faculty, staff and students.

## GROUP MEMBERS

**Christine Arcari, PhD**

*Associate Dean, Academic & Student Affairs, College of Public Health, University of Nebraska Medical Center*

**Pamela Boyers, PhD**

*Associate Vice Chancellor, Clinical Simulation, iEXCEL, University of Nebraska Medical Center*

**Bradley Britigan, MD**

*Dean, College of Medicine, University of Nebraska Medical Center*

**Karen Burbach**

*Senior Associate Director, Public Relations, University of Nebraska Medical Center*

**H. Dele Davies, MD**

*Senior Vice Chancellor, Academic Affairs, University of Nebraska Medical Center*

**Janet Guthmiller, DDS**

*Dean, College of Dentistry, University of Nebraska Medical Center*

**Ken Hansen**

*Associate Vice Chancellor & Director, Campus Facilities, University of Nebraska Medical Center*

**Meg Johnson**

*Assistant Vice President of Development, University of Nebraska Foundation*

**Greg Karst, PT, PhD**

*Executive Associate Dean, College of Allied Health Professions, University of Nebraska Medical Center*

**Daren Knoell, PharmD**

*Chair & Professor, Department of Pharmacy Practice, College of Pharmacy, University of Nebraska Medical Center*

**Jennifer Larsen, PhD**

*Vice Chancellor, Research, University of Nebraska Medical Center*

**Rod Markin, MD, PhD**

*Associate Vice Chancellor, Business Development & Chief Tech Officer, University of Nebraska Medical Center*

**Kyle Meyer, PhD**

*Dean, College of Allied Health Professions, University of Nebraska Medical Center*

**Devin Nickol, MD**

*Associate Professor, Department of Internal Medicine—General Medicine-Academic, College of Medicine, University of Nebraska Medical Center*

**Juliann Sebastian, PhD**

*Dean, College of Nursing, University of Nebraska Medical Center*

**Benjamin Stobbe, MBA, RN**

*Assistant Vice Chancellor, Clinical Simulation, iEXCEL, University of Nebraska Medical Center*





## Davis Global Center Dedication

*In October 2020, iXCEL and the University of Nebraska Foundation hosted the official dedication ceremony of the Dr. Edwin G. & Dorothy Balbach Davis Global Center. Multiple engagements marked the occasion highlighting military and industry collaborators, faculty innovators and institutional stakeholders who made the project a reality.*



# Davis Global Center Dedication Week Activities

## DEDICATION CEREMONY

Speakers from around the country highlighted the impact of the iEXCEL program and Davis Global Center as a transformational model for education, training and research.

*Speakers:*

**Ted Carter**

*President, University of Nebraska*

**Jeffrey P. Gold, MD**

*Chancellor, UNMC*

**John E. Hyten**

*General, U.S. Air Force*

**Robert Kadlec, MD**

*Former Assistant Secretary for Preparedness & Response, U.S. DHHS*

**Jim Linder, MD**

*CEO, Nebraska Medicine*

**Jim Pillen, DVM**

*Chairman, Board of Regents, University of Nebraska*

**Pete Ricketts**

*Governor, State of Nebraska*

**Chas Richard**

*Admiral, U.S. Navy*

**Jean Stothert**

*Mayor, City of Omaha*

**UNMC faculty, staff & students**



## NATIONAL TRAINING & SIMULATION ASSOCIATION (NTSA) PRESENTATION

Broadcast live from the Davis Global Center Holographic Theater, iEXCEL hosted an interdisciplinary panel titled, *The Impact of COVID-19 on Health Care Training*. Military and industry experts joined UNMC leaders to examine challenges, opportunities and innovations in simulation training throughout the pandemic.

*Panelists:*

**Pamela J. Boyers, PhD**

*Associate Vice Chancellor, Clinical Simulation, iEXCEL*

**Christopher J. Kratochvil, MD**

*Associate Vice Chancellor for Clinical Research & Chief Medical Officer, UNeHealth*

**Michael Wadman, MD**

*Chairperson & Professor, Emergency Medicine*

**Christie Barnes, MD**

*Assistant Professor, Department of Otolaryngology – Head and Neck Surgery*



# iEXCEL Innovation Awards

The inaugural iEXCEL Innovation Awards recognized faculty who created & implemented new ideas for teaching, research & scholarship using simulation technologies & the unique capabilities of the Davis Global Center.



## ✿ iEXCEL Impact Award (COVID-19 Response)

Christie Barnes, MD; Kristy Carlson, PhD;  
Jayme Dowdall, MD; & Samuel Pate, MD  
Department of Otolaryngology Team Award

The team developed and facilitated nasopharyngeal swab and PPE training for more than 400 Nebraska Medicine clinicians, created evidence-based instructional videos on COVID-19 related procedures and hosted a live virtual event from the Davis Global Center that reached 4,405 individuals.

## ✿ iEXCEL Nebraska Medicine Partnership Award

Justin Siebler, MD  
Associate Professor & Chief of Orthopaedic Trauma

Dr. Siebler redesigned his curriculum for enhanced simulation, including a visualization module incorporating a virtual tibial nail orthopedic suite in addition to hands-on cadaver labs.

## ✿ iEXCEL Clinical Award

Yiannis Chatzizisis, MD, PhD  
Professor, Internal Medicine

Dr. Chatzizisis worked with iEXCEL to create an immersive cath lab application featuring virtual reality (VR) simulations of C-Arm operations, as well as volumetric 3D visualizations for stent design and deployment.

## ✿ iEXCEL Academic Award

Amy Cutright, MD  
Assistant Professor, Emergency Medicine

Dr. Cutright helped lead the Acute Care Block, a two-week session that prepares M3s for clerkships. The curriculum involved a mix of simulations, lectures, demonstrations, hands-on procedures and an objective structured clinical examination. The block also included a series of trainings pertaining to airway and procedure labs, as well as trauma and shock simulations.

## ✿ iEXCEL Collaboration Award

Jason Langenfeld, MD  
Assistant Professor, Emergency Medicine

Dr. Langenfeld led multiple simulation activities inside the Davis Global Center for emergency medicine residents monthly. He also contributed extensively on simulation design and instruction during the Acute Care Block. Additionally, Dr. Langenfeld was involved with numerous activities including an escape room, outdoor sim day, Halloween simulation, mock emergency department, COVID-19 PPE training and more.

# iEXCEL Data Capture

Integrated into the Davis Global Center is a robust, comprehensive data capture system that tracks, analyzes & distributes data.

Through tracking Center usage and training outcomes, real-time feedback can be given to students and faculty. This comprehensive data capture model allows for simulation enhancement, improved training outcomes and a maximized return on investment for all stakeholders.

## HIGHLIGHTS

### ● Mission-Driven Analytics Direct Data Decisions

Created mission-based data model to influence decision-making processes

### ● Machine Learning & Predictive Analytics

Improved program efficiencies and reduced operational spending

### ● Data Quality Improvement & Governance

Increased quality of data sets through strict governance and analytics

### ● Implemented Data Visualization

Created illustrations for macro and micro data into consumable, comprehensive reports

### ● Empowered End Users

Enabled leadership, staff and learners to improve training and outcomes by offering real-time data on multiple devices



# iEXCEL Simulation

## ACS Accreditation

UNMC's iEXCEL program & Department of Surgery received one of the nation's most prestigious recognitions, having recently earned a five-year accreditation as a Comprehensive Accredited Education Institute (AEI) by the American College of Surgeons (ACS).

The overall goals of the ACS-AEI program are to enhance patient safety, address competencies that all learners must achieve and enhance access to hands-on comprehensive education. AEIs also conduct innovative research to advance simulation-based education.

There are two levels of accreditation, "Comprehensive" and "Focused," each with specific requirements. The level of accreditation status differs based on the educational program's focus, learners served, curriculum offered, technological capacity and resources available. In recently earning the top level status as a Comprehensive ACS-AEI program, iEXCEL has demonstrated its ability to develop original curricula, offer a broad spectrum of training programs and maintain the facilities, technology and expertise to conduct education and research activities maintaining a high standard of excellence.



”

*We had a patient come in post-arrest to the Children's ED with the LUCAS on. I was up at the head of the bed doing the initial assessment and I heard someone ask if anyone knew how we got the LUCAS off. I quickly instructed them to pull up on the yellow tabs and that it was a little heavy when removing it. Knowing how to do that definitely alleviated what could have been a very stressful situation, especially when it involves a child and emotions are already running high. No one else in the trauma bay knew how to remove the LUCAS and after they talked about how they want to have similar training for familiarity with the LUCAS. Overall, very, very thankful for the training because I wouldn't have known how to remove it without the EMS day.*

— Emergency Medicine Resident

## iEXCEL Simulation

### Advanced Clinical Simulation Highlights



#### EMERGENCY MEDICINE RESIDENCY OUTDOOR SIM DAY

The iEXCEL simulation team worked with UNMC Emergency Medicine residents, Bellevue Fire Department, and LifeNet of the Heartland to conduct training on life-saving procedures in outdoor environments. They practiced safely securing a scene within interprofessional teams that involved stopping patient bleeding, providing EMS care inside a moving ambulance and administering the LUCAS chest compression system.



## C-STARS HOLDS INAUGURAL BIOCONTAINMENT CARE COURSE

In partnership with UNMC, Nebraska Medicine and the U.S. Air Force, Center for Sustainment of Trauma Readiness Skills (C-STARS) Omaha worked with iEXCEL to train in the Davis Global Center. Military health care professionals simulated caring for patients with highly infectious diseases in clinical and austere settings.



*This is an incredible opportunity for the U.S. Air Force to partner with UNMC and Nebraska Medicine, world-renowned for their expertise in biocontainment care, innovative research and exceptional commitment to advancing quality health care and education. I feel very fortunate to be a part of this important project to enhance the preparedness of U.S. Air Force medical personnel.*

— Lt. Col. Elizabeth Schnaubelt, MD



## COLLEGE OF MEDICINE'S RESIDENCY PREP COURSE (RPC)

This new course provided UNMC graduates with the advantage of tailored simulation training to prepare for their upcoming residency specialties. Group learning sessions focused on clinical procedures, professional development, rapid team response, soft-skills and communication to supplement more individualized training per specialty areas through simulations involving manikins, standardized patients and interactive didactics.



## HIGHLIGHTS



1,355

Standardized Patient Roles

140

Medicine

19

Nebraska Medicine

119

Allied Health

16

Graduate Medical  
Education

43

Nursing, Pharmacy,  
Public Health

11

External



11,986

Learners



339

Events

(many interprofessional)



## TELEHEALTH

79

Events

2,786

Learners

# iEXCEL Simulation

## Advanced Human Patient Simulation

Advanced Human Simulation trains medical professionals to successfully work with people of different backgrounds, ages, genders, cultures, languages & religions.



A diverse team of actors, referred to as Standardized Patients, portray patients, family members or other health care providers involved in various simulated scenarios. These actors are trained to provide communication-focused feedback to learners. Advanced Human Simulation sessions take place in the Davis Global Center, Sorrell Clinical Skills Lab and the Pharmacy Simulation Lab, where realistic clinical environments and equipment add to learner immersion for improved outcomes.



## HIGHLIGHTED SCENARIOS

### Soft Skills

- Interprofessional communication & coordination
- Multilingual, informed consent, non-verbal interactions
- Discussing medical errors, delivering bad news

### Telehealth

- Interprofessional care, virtual interviews & interactions

### Counseling

- Genetic, smoking cessation, drug & opioid addiction
- LGBTQIA+ sexual health, body dysmorphia

### Clinical

- Psychological, COVID-19, transitional care
- Geriatric
- Neurology – stroke & epilepsy
- ADD & ADHD, bariatric weight loss
- Radiation, ultrasounds, trauma
- OBGYN & women's health



# iEXCEL Simulation

## Advanced Surgical Simulation Highlights

### ORTHOPEDIC PGY1 CURRICULUM

In February 2021, Dr. Justin Siebler implemented a brand new Orthopedic PGY1 curriculum. Each day of the month focused on a different skill led by a faculty expert, such as cadaveric tissue and dry labs utilizing sawbones. Learners also practiced sterile technique, fluoroscopy and casting in focusing on several specialty areas of orthopedics. Additionally, participants and instructors provided daily feedback to improve the course as it becomes an annual offering.



### ROBOTIC SURGICAL SIMULATION

Robotic surgery has been a major focus in the Davis Global Center throughout the past year. iEXCEL recently collaborated with industry leader, Intuitive, who hosts quarterly trainings for the DaVinci robotic system within the Davis Global Center to provide certification for local, regional and national clinicians.

### DEMOS & TECHNOLOGY SELECTION

Nebraska Medicine faculty and residents also participated in an interactive demo with the Intuitive ION Robot, a robotic-assisted bronchoscopy device. iEXCEL hosts these sessions to ensure subject matter expert insight and feedback to help guide robotic technology selection moving forward.



### ROBOTIC CERTIFICATION SESSIONS

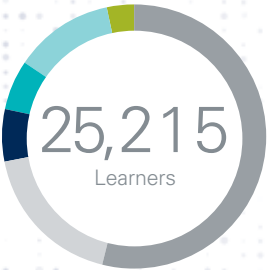
iEXCEL collaborated with Medtronic to bring the Mazor X Stealth Edition to the Davis Global Center. Nebraska Medicine neurosurgeons and UNMC faculty had the opportunity to go hands-on with this cutting-edge spinal robotic surgery system and achieve certification on the device.







Zimmer Biomet held a certification course that showcased the ROSA (Robotic Surgical Assistant) to perform total and partial knee replacement procedures. This two-day course offered certification opportunities for faculty as well as orthopedic residents.

Smith & Nephew hosted sessions on the NAVIO surgical system to facilitate total and partial knee replacement. The course allowed internal and external surgeons to train on this robotic system in the Davis Global Center before performing robotic-assisted arthroplasty in the operating room.



## Clinical, Human Patient & Surgical Simulation Activities July 1, 2020 – June 30, 2021



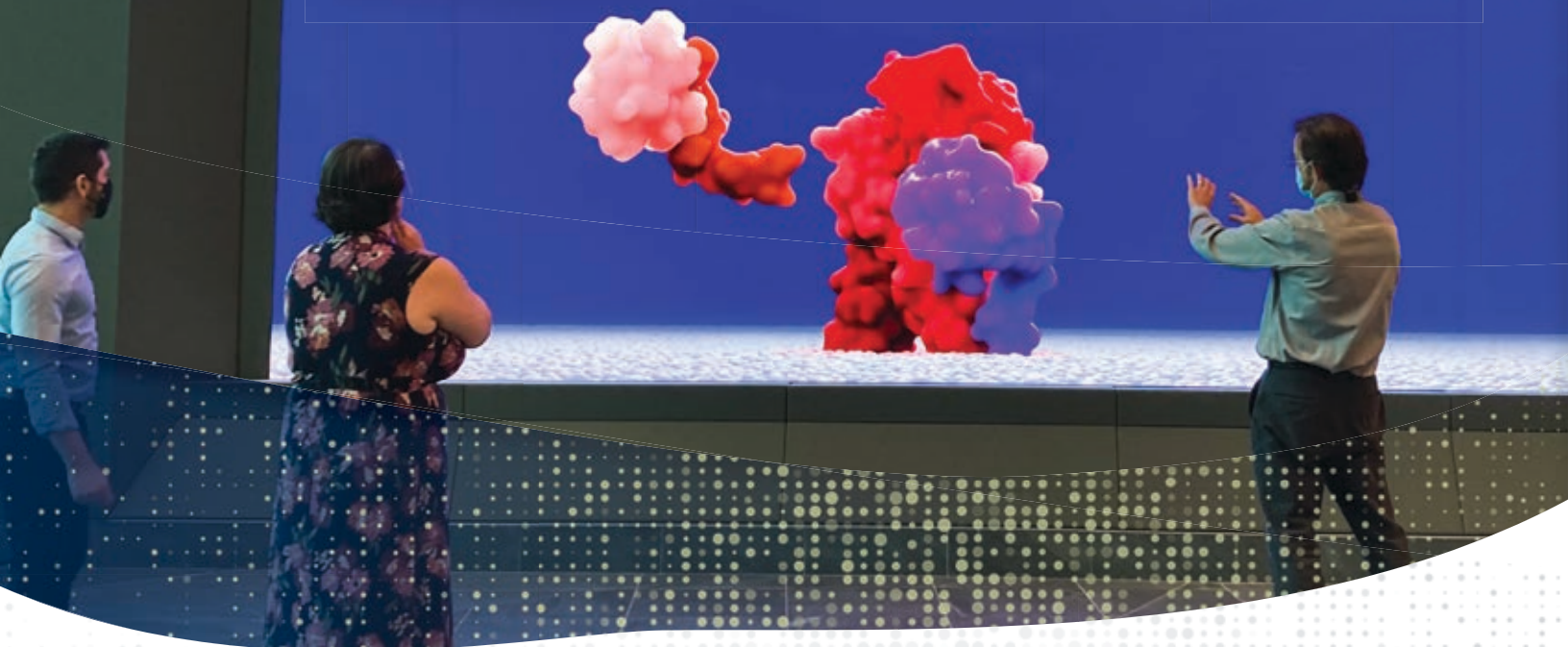
Categories		Events	Learners
	<b>Medicine</b> M1, M2, M3 & M4 Students	408	13,631
	<b>Allied Health</b> Physician Assistants, Physical Therapy, Diagnostic Medicine & Genetic Counseling	212	4,538
	<b>Colleges of Nursing, Pharmacy, Public Health &amp; Academic Affairs</b>	54	1,625
<b>External Users</b>	 <b>Nebraska Medicine</b> MDs, Nurses & Allied Health Professionals	110	1,562
	 <b>Graduate Medical Education</b> Residents & Fellows	389	3,056
	 <b>External</b> Global Center for Health Security, ATLS, ACTN, FLS/FES Testing, etc.	152	839

## iEXCEL Visualization

The iEXCEL visualization team is comprised of expert designers, artists & animators who produce highly accurate medical content for the 3D & virtual worlds. This team collaborates with subject matter experts including faculty & clinicians to create unique educational experiences utilizing state-of-the-art technologies within the Davis Global Center.

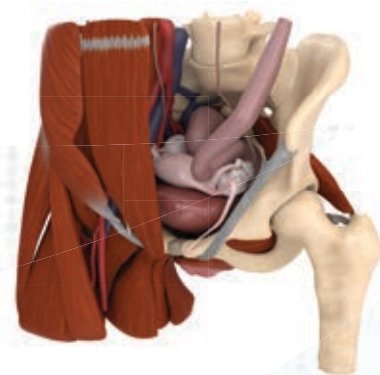
### COAGULATION CASCADE

Working closely with subject matter experts Dr. Scott Koepsell and Dr. Heidi Keeler, the visualization team created a new, fully animated coagulation cascade. This 3D animation allows learners to engage with the content at a micro-level. Participants can also step into the Laser CAVE-5 at the Davis Global Center to interact with organic structures such as proteins and blood cells to gain a deeper understanding of this complex coagulation process.



## PELVIC MODULE

Dr. Jennifer Cera collaborated with iEXCEL to create an anatomical 3D pelvic model for interprofessional education across nursing, medicine and allied health professions. Created with an emphasis on pelvic pathology and organ prolapse, this virtual reality ready model permits non-contact clinical knowledge of urogenital, musculoskeletal and neurovascular systems with appreciation of pelvic alterations. This platform agnostic content can be utilized by learners across devices ranging from smart phones and desktops to 3D CAD Walls, iWalls and 3D Workbenches in the Davis Global Center.



## TSQC DISINFECTION APPLICATION

Users wear a virtual reality headset that tracks and projects the participants' hands into the scenario of cleaning and disinfecting surfaces within a patient room. Contamination is illustrated through viral particles and handprints to demonstrate proper cleaning techniques involving concepts such as visibility, chemical properties of cleaning solutions, drying time and sequential steps for decontamination. This application was developed in collaboration with the Global Center for Health Security to prepare learners for safe interactions when caring for patients with highly infectious diseases.



## Visualization July 1, 2020 – June 30, 2021



39

Video Productions



34

Projects Completed



1,900

Models Created

The Global Center for Health Security (GCHS) is a state-of-the-art facility also housed in the Davis Global Center. It includes a six room simulated biocontainment unit for advanced experiential training and the nation's only 20 bed federal quarantine unit."



## Simulation in Motion-Nebraska

As with all other aspects of the world, Simulation in Motion-Nebraska (SIM-NE) was significantly impacted by COVID-19. Onsite training events were suspended with the health & safety of learners & SIM-NE staff taking top priority.

### SIM-NE Activities 2016 – June 30, 2021



2,000+

Virtual Training  
Views



88

Counties  
Reached



151

Virtual Training  
Events



637

In-Person Training  
Events



3,617

Health Care  
Professionals Trained

## EXPANDING VIRTUAL EVENTS

When the pandemic hit, the method of SIM-NE instruction adapted to ensure accurate and timely training. Throughout the past year, SIM-NE offered over 50 virtual trainings and five Facebook Live broadcasts reaching a total of 1,600 learners through these valuable online sessions. Participants in the virtual engagements represented more than 178 different health care agencies from across the country. The SIM-NE video repository of past online trainings also continues to grow its audience, with over 20,000 views across all videos since March 2020.



## STATE OF NEBRASKA EMERGENCY HEALTH SYSTEMS COLLABORATION

SIM-NE expanded its onsite training menu through a new partnership with the State of Nebraska Emergency Health Systems (EHS). The Nebraska EHS was awarded a multi-year grant to distribute over 2,500 AEDs to law enforcement agencies across the state. The organization partnered with SIM-NE to design and deliver more than 200 supplementary training sessions reaching over 3,000 officers to provide hands-on onsite AED education.



## SIM-NE HITS THE ROAD... AGAIN!

SIM-NE suspended in-person training as soon as the pandemic began to ensure safety for all instructors and participants. While this shift in program delivery facilitated great innovation in developing online and asynchronous training materials, SIM-NE was unable to visit rural critical access hospitals and EMS sites throughout the state. Beginning on June 1, 2021, SIM-NE resumed onsite training to re-engage the trucks statewide. This return marked a busy month, as 18 events involving 179 attendees occurred across multiple sites throughout the month of June.





# iEXCEL Community & Business Engagement

Connecting with community & area businesses is an important, ongoing effort to share the vision & impact of iEXCEL with engagement from local, national & global stakeholders.

## Highlights

### VIP VISITORS

Following the opening of the Davis Global Center, iEXCEL welcomed notable high-priority guests, including Second Lady Karen Pence, Deputy Secretary of Health and Human Services Eric Hargan, Assistant Secretary for the Department of Homeland Security David Richardson and many more. Each of these visits advanced strategic partnerships between UNMC, iEXCEL and government institutions.

### UNO STRATCOM INTERACTIVE TOUR

A special University of Nebraska at Omaha (UNO) Strategic Command (STRATCOM) cohort visited to gain insight into simulation capabilities of the Davis Global Center. These high-level military leaders consulted with iEXCEL to learn best practices for optimizing high-fidelity training environments while advancing collaboration initiatives between the institutions.



## SUMMER WORKSHOPS & VIRTUAL RESOURCES

This year, iEXCEL continued to adapt and engage hundreds of students from across the Omaha community and beyond. Through the creation of new online activities, including 3D content creation tutorials and interactive virtual escape rooms, iEXCEL partnered with AIM Institute, Emerging Ladies Academy, Highlander Code Camp, Nebraska 4-H, Omaha STEM Ecosystem, UNMC SHEPEP, Urban League of Nebraska and many more to help students explore careers in health care and STEM.



## Community & Business Engagement Activities July 1, 2020 – June 30, 2021



### VISITORS

12,527

FY 16 – 21

4,421

FY 20 – 21



### TOURS & EVENTS

943

FY 16 – 21

177

FY 20 – 21



### ENGAGEMENT SESSIONS

99

Business &  
Community

32

Philanthropy

80

University of  
Nebraska

20

Government &  
Military

# iEXCEL Press

## HIGHLIGHTS OF LOCAL & NATIONAL MEDIA FEATURING iEXCEL/DAVIS GLOBAL CENTER

- Karen Pence rallies women to support Don Bacon during Omaha visit  
*Omaha World Herald, August 20, 2020*
- UNMC subscription to VisualDx renewed  
*UNMC Today, August 26, 2020*
- UNMC health care report shows rural communities need more health care professionals  
*Nebraska TV, October 6, 2020*
- UNMC experts warn Nebraskans of 'potential perfect storm' as coronavirus cases rise  
*Omaha World Herald, October 6, 2020*
- Only limited by our imaginations: Emerging technology enhances learning at Davis Global Center  
*KETV, October 12, 2020*
- Exclusive: Step inside new Davis Global Center, an advanced simulation facility on UNMC campus  
*KETV, October 12, 2020*
- UNMC dedicates \$121.8 million health care training, simulation center in virtual ceremony  
*Omaha World Herald, October 13, 2020*
- A community that can do anything: How public-private partnerships made the Davis Global Center possible  
*October 13, 2020*
- UNMC, local and state leaders dedicate world renowned Davis Global Center  
*KLIN, October 13, 2020*
- Leaders from U.S. Dept. of Health and Human Services tour UNMC  
*KPTM, October 24, 2020*
- UNMC pandemic expert fears dramatic increase in Nebraska's COVID-19 deaths  
*Omaha World Herald, November 1, 2020*
- Infotec 2020 virtual conference connects tech talent and companies this Friday  
*Silicon Prairie News, November 10, 2020*
- UNMC Unveils The Teaching Hospital of the Future  
*Science Times, November 13, 2020*
- UNMC aims to improve training for nasal swab testing  
*January 11, 2021*
- UNMC training model will aid accurate COVID testing  
*UNMC Today, January 11, 2021*
- Chronicle: The Future for UNMC  
*KETV, January 17, 2021*
- UNMC hopes to renovate industrial property to create 'innovation hub'  
*Omaha World Herald, March 26, 2021*
- Why Healthcare Simulation is About to Become One of the World's Most Important Industries  
*Healthysimulation.com, April 21, 2021*
- Simulation in Healthcare: "Just in Time Training" — Innovation in Response to COVID-19  
*Defence Global, May 2021*  
*\*Written by Pamela Boyers, PhD*
- Expansion of simulation and extended reality for undergraduate health professions education: A call to action  
*Journal of Interprofessional Education & Practice, June 2021*  
*\*Written by Pamela Boyers, PhD*

## PRESENTATIONS & CONFERENCES

- HIPE Conference  
*July 25, 2020*
- Middle East North Africa Conference  
*August 6, 2020*
- Heartland Developers Conference  
*September 24, 2020*
- NTSA Round Table  
*October 14, 2020*
- NeVRNER Annual Meeting  
*October 23, 2020*
- FIEA Games & Simulation  
*November 30, 2020*
- VSFX Lecture Series, Savannah College of Art & Design  
*February 5, 2021*
- NE Association for Healthcare, Quality, Risk and Safety  
*February 5, 2021*
- Society for Simulation in Healthcare Annual Conference  
*February 23, 2021*
- US Ignite AR Challenge Conference  
*May 1, 2021*
- HealthySimulation.com Panel  
*May 10, 2021*

## Web & Social Media



### WEBSITE TRAFFIC

10,139  
visits

new user average session time  
1:38



### SOCIAL MEDIA

315,167  
impressions



### REFERRAL TRAFFIC

1,251  
visitors

Thank you to all our supporters who have made  
iEXCEL and the Davis Global Center a reality.

UNIVERSITY OF  
**Nebraska**  
Medical Center

