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2023 SIGNATURE PROGRAMS SYMPOSIUM

Entrepreneurship

Humanities &
Global Studies

Science, Technology,
Engineering & Math

Visual &
Performing Arts

THURSDAY, MAY 18, 2023



ENTREPRENEURSHIP



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XML Financial Group

HUMANITIES & GLOBAL STUDIES



SCIENCE, TECHNOLOGY, ENGINEERING & MATH



VISUAL & PERFORMING ARTS



SYMPOSIUM SCHEDULE

8:15 - 9:45 AM

STEM Presentations

Howard Auditorium, The Blair Family Center for the Arts

10:05 - 10:30 AM

10:35 - 11:00 AM

11:05 - 11:30 AM

VPA & HGS Presentations

Humanities & Global Studies

Howard Auditorium, The Blair Family Center for the Arts

Visual Art & Technical Theatre

Lobby, The Blair Family Center for the Arts

Digital Music Composition & Production

Studio Theater, Discovery Center

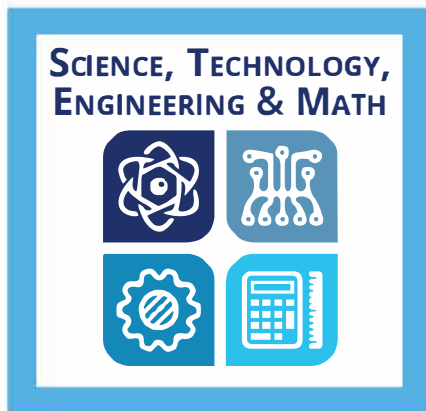
1:05 - 2:35 PM

Entrepreneurship Presentation

Shark Tank

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Howard Auditorium, The Blair Family Center for the Arts



STEM PROJECTS

"THE REMORA": VACUUM-ASSISTED WALL-CLIMBERS

RESEARCHERS: BLAKE B. & BRYCE D.

THE EFFECT OF NITRATE CONCENTRATION ON PLANT GROWTH IN THE AQUAPONICS SYSTEM

RESEARCHER: JULIA Z.

TAKING FLIGHT: AN IN-DEPTH ANALYSIS OF FLIGHT CARRIER ON-TIME PERFORMANCE

RESEARCHER: MARZAN K.

THE EFFECTS OF AFFECTION ON CHILD DEVELOPMENT

RESEARCHER: RYAN B.

DEPLOYABLE SKYWALK FIRE EXIT

RESEARCHERS: ERIC Z. & OLIVER H.

NUTRIENT DETERMINATION OF STRAWBERRIES STEM AND LEAVES

RESEARCHER: MAYA M.

BUZ: MOBILE MENTAL WELLNESS APP SPECIALIZED IN JOURNALING

RESEARCHERS: KIANA M. & LYNDSY S.

PLACEBO EFFECT AND ENERGY DRINKS

RESEARCHER: MADISON S.

HELMET CRASHING SIMULATION

RESEARCHER: BRANDON T.

LINKAGES BETWEEN STRUCTURAL BRAIN PLASTICITY AND NEUROSTIMULATION TO REFORM BEHAVIOR

RESEARCHER: SAGE H.

MODIFIED KNEE BRACES FOR LATERAL PATELLA SUBLUXATIONS

RESEARCHER: AVA C.

EXPLORING THE EFFECT OF INCREASING TEMPERATURE AND FOOD SOURCES ON GROWTH AND CORAL BLEACHING RATES

RESEARCHER: QUINN S.

SCIENCE, TECHNOLOGY, ENGINEERING & MATH



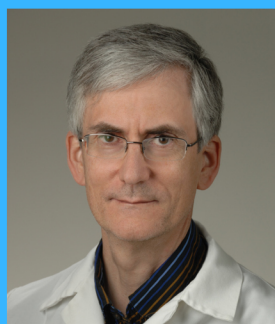
STEM JUDGES



ADINA CHERRY, ENGINEERING EXPERT

ADINA CHERRY IS A FOUNDING PARTNER AND PRESIDENT OF THE HYPATIA GROUP, A HOLDING COMPANY OF BUSINESS INTERESTS AND IP IN ADVANCED INFORMATION AND BIOTECHNOLOGIES, INCLUDING THE WHOLLY-OWNED SUBSIDIARY HYPATIA PROJECT, A JOINT VENTURE PARTNER WITH THE DEPARTMENT OF COMMERCE FOR THE DEVELOPMENT OF GOVERNMENT-WIDE DATA INNOVATION AND CLOUD COMPUTING TECHNOLOGIES. SHE EARNED HER M.S. IN ELECTRICAL ENGINEERING FROM UCONN IN 1995 AND HER B.S. FROM MIDDLE TENNESSEE STATE UNIVERSITY.

MS. CHERRY HAS OVER 20 YEARS OF EXECUTIVE EXPERIENCE IN BUSINESS DEVELOPMENT, PROGRAM MANAGEMENT, AND INTERNATIONAL BUSINESS. SHE WAS THE VICE PRESIDENT OF GLOBAL BUSINESS DEVELOPMENT, AIRBORNE SYSTEMS, AT TERMA NA, WHERE SHE PROVIDED LEADERSHIP AND GROWTH STRATEGIES FOR INTERNATIONAL SALES. SHE SPENT OVER 10 YEARS AT NORTHROP GRUMMAN, WHERE HER LATEST POSITION WAS DEPUTY DIRECTOR OF INTERNATIONAL PROGRAMS FOR THE INTEGRATED AIR AND MISSILE DEFENSE DIVISION. HER RESPONSIBILITIES INCLUDED CUSTOMER RELATIONSHIP MANAGEMENT, LEADING PRODUCT AND PROGRAM TEAMS, AND ESTABLISHING THE INTEGRATED AIR AND MISSILE DEFENSE DIVISION'S INTERNATIONAL PROGRAM OFFICE. MS. CHERRY ALSO HELD SEVERAL MANAGEMENT POSITIONS AT SAIC, CULMINATING IN STRATEGIC PARTNERSHIPS MANAGER FOR INTERNATIONAL BUSINESS DEVELOPMENT. IN HER TIME WITH SAIC, SHE WORKED OUT OF NEW DELHI, INDIA, AND ABU DHABI, UNITED ARAB EMIRATES.



ANDREW MANNES, MEDICAL EXPERT

FOLLOWING COMPLETION OF A BACHELOR OF SCIENCE DEGREE IN BIO-ENGINEERING AT THE UNIVERSITY OF PENNSYLVANIA AND A MASTER OF ENGINEERING DEGREE AT DARTMOUTH COLLEGE, DR. MANNES DESIGNED MISSILES AT RAYTHEON. HE SUBSEQUENTLY RETURNED TO SCHOOL AND RECEIVED HIS MD DEGREE AT GEORGE WASHINGTON UNIVERSITY. HE COMPLETED AN ANESTHESIA RESIDENCY AND A FELLOWSHIP IN PAIN MANAGEMENT AT THE HOSPITAL OF THE UNIVERSITY OF PENNSYLVANIA AND JOINED THE PENN FACULTY BEFORE COMING TO NIH. IN 2019, HE RECEIVED HIS MBA DEGREE FROM THE UNIVERSITY OF MARYLAND, UNIVERSITY COLLEGE.

DR. MANNES IS THE CHIEF OF PERIOPERATIVE MEDICINE AT THE NIH. ASIDE FROM RUNNING THE OPERATING ROOMS AND HIS CLINICAL RESPONSIBILITIES AS AN ANESTHESIOLOGIST AND PAIN PHYSICIAN, HE MANAGES HIS LAB DEDICATED TO A LONG-STANDING INTEREST IN THE TREATMENT OF SEVERE PAIN OFTEN SEEN AT THE END OF LIFE. HIS CURRENT INTERESTS INCLUDE DEVELOPING PAIN THERAPIES THAT TARGET PAIN PATHWAYS AND CHARACTERIZING DISEASE STATES USING PROTEOMIC AND GENOMIC TECHNIQUES. HE HAS SUPERVISED HUMAN CLINICAL TRIALS INCLUDING MOST RECENTLY A MINIATURE VENTILATOR WITH NO MOVING PARTS THAT ARE MADE WITH A 3-D PRINTER. HE HAS CONTRIBUTED TO OVER 100 MEDICAL JOURNAL ARTICLES AND BOOK CHAPTERS.

**SCIENCE, TECHNOLOGY,
ENGINEERING & MATH**



STEM JUDGES



SUSAN RICHMAN, PSYCHOLOGY & COUNSELING EXPERT

AS A PSYCHOTHERAPIST, SUSAN HAS WORKED WITH ADULTS AND ADOLESCENTS IN HER PRIVATE PRACTICE FOR OVER 14 YEARS. SHE SPECIALIZES IN RELATIONSHIP COUNSELING, PARENTING, AND ANXIETY MANAGEMENT. SHE HAS ALSO PROVIDED COUNSELING SERVICES AT THE MONTGOMERY COUNTY COMMISSION FOR WOMEN AND IN PRIVATE AND PUBLIC SCHOOL SETTINGS. SUSAN EARNED A B.A. IN ECONOMICS FROM TUFTS UNIVERSITY, AN MBA FROM THE THUNDERBIRD SCHOOL OF GLOBAL MANAGEMENT, AND A MASTERS IN CLINICAL COMMUNITY COUNSELING FROM JOHNS HOPKINS UNIVERSITY.

SUSAN HAS BEEN AN ACTIVE MEMBER OF THE BULLIS COMMUNITY SINCE 2001. FROM 2003-2006 SHE SERVED AS A CLASSROOM PARENT REPRESENTATIVE, AND FROM 2006-2008 SHE WAS THE BULLIS REPRESENTATIVE TO THE PARENTS COUNCIL OF WASHINGTON, AS WELL AS A MEMBER OF THE PARENTS ASSOCIATION BOARD. SHE CURRENTLY CHAIRS THE BULLIS PARENT CONNECTIONS COMMITTEE, WHICH HOSTS MULTIPLE PARENT NETWORKING EVENTS BY GRADE THROUGHOUT THE SCHOOL YEAR.

SPECIAL THANKS:

STEM MENTORS: RACHAEL DELAWDER, DURUHAN BADRASLIOGLU, DAN TERBUSH, EVERETT LUM, LAURA NUTTER

STEM PARENTS ASSOCIATION COMMITTEE: MARGO LAMOTTA, EMINE SANDI, RUCHIKA NIJHARA

**BULLIS HUMAN RESEARCH BOARD: RACHEL VENEZIAN, RYANN FAPOHUNDA,
JENNA BORRELLI, MONICA DAYHOFF, DR. SAM SANDERS**

CAPSTONE SUPPORT: JAMIE DICKIE, MATT ZIGLER

DIRECTOR OF STEM SIGNATURE PROGRAM & CAPSTONE INSTRUCTOR: TARYN KITTEL



HGS PROJECTS

THE AMERICAN CHILD WELFARE SYSTEM: CONFRONTING INEQUITIES

RESEARCHER: SARAH A.

SARAH A. RESEARCHED THE SHORTCOMINGS OF THE AMERICAN CHILD WELFARE SYSTEM. SHE EXAMINED THE ROLE THAT RACE PLAYS IN THE SYSTEM AND THE NEGATIVE IMPACTS ON FAMILIES WHO ARE OVER-SURVEILLED BY SOCIAL SERVICES. FURTHER, SHE CONSIDERED THE NEGATIVE IMPACTS OF GROUP HOMES FOR CHILDREN. HER TIME VOLUNTEERING WITH LOCAL NON-PROFIT ORGANIZATIONS SPARKED INTEREST IN THE COMMUNITY'S ROLE IN PROTECTING AND REHABILITATING FAMILIES AND CHILDREN.

THE IMPORTANCE OF POST-SECONDARY EDUCATION IN PRISON

RESEARCHER: SARAH M.

SARAH M. INVESTIGATED THE EFFECTIVENESS OF POST-SECONDARY EDUCATION IN REDUCING RECIDIVISM. SHE RESEARCHED HOW THE SCHOOL-TO-PRISON PIPELINE AND MASS INCARCERATION CONTRIBUTE TO THE LACK OF LITERACY IN PRISONS, AND HOW THAT TRANSLATES TO RECIDIVISM AND PUBLIC SAFETY. SHE INTERVIEWED TWO FORMERLY INCARCERATED MEN THAT NOW WORK AT GEORGETOWN'S PRISONS AND JUSTICE INITIATIVE (PJI) AS WELL AS A PUBLIC DEFENDER FROM WASHINGTON D.C. RECENTLY, SHE BROUGHT A SPEAKER FROM GEORGETOWN'S PJI TO DISCUSS HOW HIS POST-SECONDARY CORRECTIONAL EDUCATION CHANGED HIS LIFE.

HGS CAPSTONE INSTRUCTOR: SARA ROMEYN



VPA PROJECTS

THEORIES

VISUAL ARTIST: FALLON A.

PROJECT WEBSITE:

<https://qr-open.it/g/2WYrOrTMp6K>



FLOWMODORO

APP DEVELOPER: ARIELLE A.

PROJECT WEBSITE:

<https://qr-open.it/g/2oth743AqL9>



ETERNITY

DESIGNER/ENGINEER: ANITA C.

PROJECT WEBSITE:

<https://qr-open.it/g/s9dXQTAV1V>



UNTRADITIONAL

VISUAL ARTIST: DEVON H.

PROJECT WEBSITE:

<https://qr-open.it/g/5rBvpt9bMYa>



**HOTEL FOR HEATHENS:
A CONCEPT ALBUM
COMPOSER/MUSICIAN: LUKE L.**

PROJECT WEBSITE:

<https://qr-open.it/g/AZuHp0k7VY>



**ETERNAL ECHOS
COMPOSER/MUSICIAN: JESSICA Y.**

PROJECT WEBSITE:

<https://qr-open.it/g/2noXMnZTWk0>



**THE MESSAGE FROM THE PAST
VISUAL ARTIST: NATHAN Y.**

PROJECT WEBSITE:

<https://qr-open.it/g/2a3ppVc3ULm>



**RUBIK
COMPOSER/MUSICIAN: TOM Z.**

PROJECT WEBSITE:

<https://qr-open.it/g/4HkVmDfRhec>



SPECIAL THANKS:

VPA CAPSTONE INSTRUCTORS: KATHLEEN ADAMS & CHARLES JOHNSON

**US VPA DEPARTMENT: KATHLEEN ADAMS (CHAIR), ANTHONY BROOKS, ANGEL CHINN, KELSEY DONEGAN,
MARCIA FRANKLIN, CHARLES JOHNSON, STEPHANIE MAYER-SATTIN, ALICE SHIH-KHAN,
CHERYL TERWILLIGER (DIRECTOR OF ARTS), CASSIE THOMPSON**

**THANK YOU: FACILITIES CREW, BOB BUTLAND, HARRIET POLUN, TAMMY MCKNIGHT, MATT ZIGLER,
ANTHONY BROOKS, TARYN KITTEL, JULIE BOOTH, BERNICE SPARROW**

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SHARK TANK TEAMS



MYPETBOX

MYPETBOX IS A HIGH-END PET SUBSCRIPTION BOX THAT DELIVERS A CURATED SELECTION OF PREMIUM PRODUCTS DIRECTLY TO CUSTOMERS' DOORS EACH MONTH.

TEAM MEMBERS:

CHARLIE M., STELLA X., VICTORIA M., CAITLIN R., JACK S.



PEDAL-ON

HELPS CHILDREN WITH ADHD FOCUS WITHOUT THE USE OF MEDICATION

TEAM MEMBERS:

SOPHIA B. ALEX B., FRANKY Y.

MENTORS: HELEN STEFAN AND DEVON SCHAIN



EWBO

EWBO IS STREETWEAR WITH A MESSAGE THAT STARTS A CONVERSATION ABOUT MENTAL HEALTH AMONG YOUNG ADULTS.

TEAM MEMBERS:

SYDNEY S., MYLES P., JAREL D., SCOTT X.

MENTOR: TONY KORSON



SABROSO

SABROSO IS THE NEWEST COFFEE TO KICKSTART YOUR DAY. SABROSO USES AN ARGENTINIAN STYLE OF MAKING COFFEE. THE SWEET-TASTING, HEALTHY COFFEE USES NATURAL INGREDIENTS AND ELEMENTS OF THE KETO DIET.

TEAM MEMBERS:

MAISON M., MATT T., LOGAN S., JERRY X., AMY L.

MENTOR: AVI BENAIM



CAFFI

CAFFI ELIMINATES TEENAGE USE OF ENERGY DRINKS THAT ARE FILLED WITH EXCESSIVE AMOUNTS OF SUGAR, CAFFEINE, AND UNHEALTHY CHEMICALS BY REPLACING THEM WITH A HEALTHY, NONCHEMICAL ENERGIZER.

TEAM MEMBERS:

OLIVIA K., HANNA L., CHARLIE B., CONNOR B.

MENTOR: LAURA COX-KAPLAN



TIKKA TIME

TIKKA TIME IS A WALK-UP WINDOW FOOD SERVICE THAT SPECIALIZES IN TIKKA MASALA CHICKEN WRAPPED IN A UNIQUE PACKAGING.

TEAM MEMBERS:

ZANE A., MAKAYLA J., MORGAN B., NICK V.

MENTOR: CHRIS RICHARDS



DO IT RIGHT FITNESS

IS AN APP THAT HELPS CURE OBESITY IN CHILDREN BY MAKING EXERCISE A FUN AND REWARDING EXPERIENCE.

TEAM MEMBERS:

GRANT E., DANNY C., FRANCO R., BLAKE G.

MENTOR: MATT SMITH

ENTREPRENEURSHIP



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SHARK TANK JUDGES



ZVI BAND, ENTREPRENEUR

ZVI BAND IS AN ENTREPRENEUR, DEVELOPER, AND AUTHOR WHO HAS DEDICATED HIS CAREER TO HELPING HUMANS CONNECT. HE TOOK HIS PRIOR VENTURE, CONTACTUALLY, FROM AN IDEA IN EVERNOTE TO ONE OF THE MOST REGARDED RELATIONSHIP-CENTRIC CRMS IN THE REAL ESTATE INDUSTRY BEFORE SELLING IT TO COMPASS IN 2019. SOON AFTER, HE RELEASED SUCCESS IS IN YOUR SPHERE, A TACTICAL GUIDE TO RELATIONSHIP NURTURING. IN ADDITION TO INVESTING, ADVISING, AND SPEAKING, ZVI IS PURSUING NEW VENTURES IN THE COACHING AND SOCIAL CONNECTION SPACE.



SHAHAB KAVIANI, ENTREPRENEUR

A SUCCESSFUL ENTREPRENEUR, SHAHAB HAS FOUNDED 3 SAAS COMPANIES OVER A 20-YEAR PERIOD, LEADING TO MULTIPLE EXITS INCLUDING COFOUNDERSLAB. AS THE CEO, HE HELPED GROW THE COMMUNITY TO OVER 500,000 ENTREPRENEURS GLOBALLY. OVER THE LAST DECADE, HE'S DEDICATED HIS FOCUS TO UNDERSTANDING THE TALENT COMBINATION REQUIRED TO BUILD HIGH-PERFORMING STARTUP TEAMS AND HAS CONDUCTED WORKSHOPS ON CO-FOUNDERS, ADVISORY BOARDS, AND SAAS PARTNERSHIPS WORLDWIDE, INCLUDING AT NYU STERN SCHOOL OF BUSINESS AND COLUMBIA BUSINESS SCHOOL. CURRENTLY, HE IS A FACULTY ADVISOR AT THE UNIVERSITY OF PENNSYLVANIA'S ENTREPRENEURSHIP MASTERS PROGRAM AND SERVES AS A FRACTIONAL GROWTH EXECUTIVE TO SAAS COMPANIES.



ANGELA SITILIDES, ENTREPRENEUR AND OWNER, DOMICILE

ANGELA SITILIDES IS A SUCCESSFUL RETAIL ENTREPRENEUR FOCUSED ON DELIVERING SUPERIOR CLIENT SERVICES. A FORMER ATTORNEY, PROSECUTOR, AND SENATE LEGISLATIVE AIDE, SHE OPENED BELLACARA, A LUXURY BEAUTY BOUTIQUE IN OLD TOWN ALEXANDRIA IN 2000. SHE CO-FOUNDED BLOOMERS, A HIGH-END LOUNGEWEAR BOUTIQUE, IN OLD TOWN ALEXANDRIA, VA IN 2008. ANGELA SOLD HER STAKE IN BLOOMERS IN 2012 AND WENT ON TO SELL BELLACARA IN 2021, NINE MONTHS AFTER LAUNCHING HER CURRENT INTERIOR DESIGN BUSINESS AND OPENING DOMICILE, A CURATED HOME FURNISHINGS AND DECOR SHOP IN MCLEAN, VA.

SPECIAL THANKS:

ENTREPRENEURS-IN-RESIDENCE: MARK BUCHER, BRETT BERNSTEIN, BARBARA GUTERMAN

PARENTS ASSOCIATION: MARGARET BONHAM, ABIGAIL BLUNT, MANJU MALKANI

GUEST SPEAKERS: KEVIN O'LEARY (SHARK TANK), ALLYSON MCDUGAL (WORKCHEW), BRADLY RYAN (ALPINE X), ED WALTERS (FASTCASE), JAMIE RATNER (CERTIFIKID), MARC STEREN (UNIVERSITY START-UPS), DAVID BERNAD (PRODUCER-WHITE LOTUS), BRETT GUTERMAN (FORMER BULLIS SHARK TANK WINNER), ROBBIE HAYS (ENTREPRENEURSHIP CAPSTONE ALUMNAE)

BULLIS ENTREPRENEURSHIP DEPARTMENT: MARIA ANTOKAS (DIRECTOR), AIMEE NARCISSENFELD, MATT REVKIN