

IHMC Board of Directors Meeting Minutes
Friday October 4, 2019
8:30 a.m. CST/9:30 a.m. EST Meeting

Roll Call	Chair Bill Dalton
Chair's Greetings	Chair Bill Dalton

Action Items

1. Approval of June 10, 2019 minutes	Chair Bill Dalton
2. Discussion on IHMC Financials	Director Dick Baker
3. Discussion and Action on Executive Compensation Plan	Chair Bill Dalton

Chief Executive Officer's Report

1. Research Update	Dr. Ken Ford
2. State and Federal Legislative Update	Dr. Ken Ford

Adjournment

IHMC Chair Bill Dalton called the meeting to order at 8:35 a.m. CST. Directors in attendance included: Dick Baker, Carol Carlan, Bill Dalton, Ron Ewers, Eugene Franklin, Hal Hudson, Jay Patel, Jim Reeves, Ray Russenberger, Gordon Sprague and Glenn Sturm. Also, in attendance were Ken Ford, Bonnie Dorr, Alan Ordway, Jeff Hartley and Julie Sheppard.

Chair Dalton welcomed and thanked everyone who was there that morning both in person and to those who dialed in. He commented that the year was flying by and that we were rapidly approaching the holiday season.

Chair Dalton informed the Board that CEO, Ken Ford and board member, Gene Franklin were listed among the 500 Most Influential Florida leaders in the recent edition of Florida Trend, adding that Gene was in the Category of Professional Services and Ken in the Information and Technology Category. He added that he spoke for the Board in stating we are proud of both and thanked them for bringing well deserved recognition to the Northwest part of the State. Dr. Ford added that we would be remiss in not pointing out that Chair Dalton was also named in the top 500 in the Health Care category. Dr. Dalton thanked IHMC for the gift and moved directly into the meeting, commenting that there were 3 items to discuss this morning followed by Dr. Ford's report.

Turning to Action Item 1, Chair Dalton asked for a motion to approve the June 10, 2019 Minutes. Director Reeves moved approval which was seconded by Director Baker. With no changes, the June 10, 2019 minutes were unanimously approved.

Chair Dalton then moved to Agenda Item 2 asking Dick Baker, IHMC Chair of Finance and Audit to update the Board on the current financials. Director Baker discussed the financials in detail and concluded by informing the Board that the net assets were increasing and that all the financial numbers were improving and that the financial report was very positive.

Finally, Chair Dalton introduced Agenda Item 3, asking for discussion and approval of a proposed executive compensation plan for senior level leadership. Chair Dalton explained that this plan would be used for recruitment and retention of individuals designated by the CEO as part of his executive leadership team. He discussed that after considerable review of data from universities and the Association of Independent Research Institutes, the following benefits are being suggested in part because IHMC can pass most of the costs of these through grants and contracts.

Specifically, he detailed that the plan would include three items:

1. Full payment of health insurance coverage for spouse/family. Currently IHMC pays 100% of the individual coverage but does not add additional monies toward family or spousal coverage. This would be an excellent executive benefit as it would also not be taxable to the employee.
2. A \$7,500 wellness stipend per year. This can be used for executive physicals; regenerative medicine; wellness appointments; vitamins and supplements; and preventative and wellness therapies. In general, this would cover the costs of items traditionally not covered by medical insurance. This would be a taxable benefit to the executive employee for any reimbursable payments.
3. A \$7,500 technology stipend per year. This could be used for computer technologies; internet charges; phone charges and upgrades and travel related internet expenses. This would also be a taxable benefit to the executive employee for any reimbursable payments.

Chair Dalton explained that Dr. Ford suggested these items as they are beneficial to the employee and competitive in the industry. Chair Dalton then opened the item up for discussion adding that he would also like to include Dr. Ford in this plan as well for all of these benefits adding that as everyone may remember, Ken has not taken a salary increase for some time and the annuity (\$10,000 per year for 5 years) that we set up in 2013 concluded in 2018.

Some general discussion ensued about the benefits and ensuring that there were no adverse consequences to the IHMC current benefit plan as this was meant to supplement rather than replace benefits. Director Reeves moved approval seconded by Director Baker. Hearing no objections, the Board authorized approval of the senior leadership executive compensation plan outlined by Chair Dalton to include Dr. Ford and those he designated as Senior Leadership.

Chair Dalton commented that this action concluded the three Board items and turned to Dr. Ford asking him to provide his report.

Dr. Ford thanked Chair Dalton for the opportunity to provide his report. Dr. Ford thanked everyone for attending and thanked Chair Dalton for the kind accolades. And for the opportunity to talk about IHMC progress over the last quarter.

Dr. Ford began by explaining that the external audit performed by Saltmarsh Cleveland and Gund was wrapping up and should be completed soon. He added that IHMC knows of no significant issues and that we are expecting a clean audit. He explained also that the Defense Contractors Audit Agency (DCAA) is still working on our FY 18 IDC rate submission adding that they should be starting to wind it down and we are also not expecting any significant issues but one never knows with federal auditors.

Dr. Ford continued his comments by discussing the climate in Washington remarking that despite the challenging and uncertain legislative environment in Washington, IHMC continues to propose on new projects and look for additional opportunities at both the federal and private level. He explained that federal R&D budgets look largely unchanged for the coming year with the exception of the trend toward increased funding for AI research continuing. He then turned to the legislative landscape in Tallahassee and asked Jeff Hartley, a key member of IHMC's team in Tallahassee, to lead the discussion. Jeff thanked Dr. Ford and explained the current schedule in Tallahassee for committee meetings, discussed leadership in the house and senate, commented on the state budget and thanked the IHMC Board for their willingness to reach out to key members of the house and senate leadership when important. Dr. Ford thanked Jeff and hearing no questions, turned the discussion to IHMC new hires.

Dr. Ford remarked that since our last meeting, IHMC has been focused on beefing up our human performance group given our substantial new funding in that area. He also mentioned that we have also added a new Director of Information Security. Dr. Ford began by announcing IHMC is proud to welcome Dr. Andrew Koutnik to the team remarking that Andrew recently completed his Ph.D. and joins IHMC as a research scientist. He explained that Andrew studies the influence of nutrition and metabolism on health, disease, and performance at University of South Florida, Morsani College of Medicine, where he was Presidential Fellow. Koutnik originally began his research career at Florida State University across the cardiovascular, cognitive cardiology, and cardiac muscle labs studying the influence of nutrition, exercise, supplementation, and environmental extremes on both the cardiovascular and autonomic systems in normal and clinical populations. He commented that Andrew has had many offers to work at other research labs and universities but he has chosen IHMC and we are very happy to have him.

Dr. Ford also announced that joining the team in mid-September is Adam Isherwood. He commented that Adam is a research associate and will be working with the human performance team mentioning that Adam was most recently a researcher at the University of Oxford in working in both their Translational Gastroenterology Unit and Experimental Medicine—Medical Science Division. He continued by adding that Adam graduated from the University of Cambridge with a degree in Biological Natural Sciences before continuing his education at Loughborough University where he received his master's degree in exercise physiology.

Dr. Ford stated that we are also happy to introduce Dr. Tad Light. He began by remarking that Tad is a new research scientist working in the area of human resilience and performance in extreme environments. He noted that Tad recently completed his Ph.D. in Sport Performance and Physiology at East Tennessee State University adding that prior to this, he completed his M.S. in Kinesiology and Sports Performance at Louisiana Tech University and completed a B.A. in History at West Virginia University.

Dr. Ford continued adding that also joining the human performance team as a research associate is Shelby Green. He stated that Shelby recently finished her Masters in Exercise Science at the University of Texas of the Permian Basin in Odessa, Texas adding that she completed her undergraduate degree with a Major in Kinesiology with a minor in Biology and has a focus in general exercise physiology in her Master's Degree. He explained that her area of research has focused mainly on hydration and heat in exercise performance commenting that she will be

working with Dawn Kernagis and her team on various projects involving exercise in extreme environments.

Dr. Ford finished his new employee announcements by remarking that Fred Touchette joined IHMC September 24th as the Director of Information Security. He explained that Fred was previously with AppRiver and Baptist Health Care and that his job at IHMC will be responsible for evaluating security controls and identifying potential risks as well as providing advice, research support, project management services, and information security expertise to assist in designing security solutions for new and existing applications. Dr. Ford added that Fred has many technical certifications and is highly regarded as an expert on email and Internet-based cyberthreats, and has been referenced in several top technology publications including USA Today, Forbes.com, Dark Reading and more. He closed by stating that we believe Fred will be a great asset to IHMC.

Dr. Ford then turned the discussion to research funding explaining that this past quarter has been one of our best in terms of grant funding with \$14M in new firm committed funding to IHMC and with options for an additional \$37M as part of these grants and cooperative agreements. He continued on to describe several of the new projects beginning by stating that we are all very excited that our new DARPA project which goes by the appropriate moniker, PEERLESS, has been officially awarded and that the kickoff meeting occurred this week at DARPA with IHMC's Dr. Tim Broderick leading this project called, Peerless Operator Biologic Aptitude or PEERLESS. In this effort, he explained that we are partnering with Univ. of Alabama at Birmingham, Icahn School of Medicine at Mount Sinai, Princeton Univ., Univ. of Pittsburg, The Salk Institute for Biologic Studies, Translational Genomics, and SRI. Dr. Ford commented that the goal of this program is to raise performance among those serving in specialized DoD roles such as special operations, and empower the warfighter by providing knowledge of their own biology to achieve personal performance goals. He remarked that PEERLESS embodies an internationally recognized, interdisciplinary team that is uniquely positioned to develop a modular real time *in vivo* sensor that represents the most advanced intra-oral sensing platform ever devised and that its integrated design allows real time annotation, simultaneous monitoring of molecular, metabolic, vocal, physical, and physiological sensors within a single, non-invasive form factor. Dr. Ford remarked that this is a substantial win for IHMC with funding of over \$35M spread among the proposal team members stating that IHMC's portion will be roughly \$9M. He mentioned that in addition to the funding, IHMC will benefit from leading such a complex program, thus allowing us to 'check the box' when proposing on future efforts of this scale and that we are excited to get started and will continue to brief you on this project over the next few years.

Dr. Ford then announced that Dr. Bonnie Dorr (PI), Adam Dalton, and Tomek Strzalkowski have been awarded a \$220K follow-on initiative to the DARPA Social Sim program, joining the SIFT organization's team on a DARPA SBIR project called "PERFECTA". He explained that if successful, a longer (larger) continuation is expected in 2020. Dr. Ford stated that PERFECTA stands for "Politeness-based Evaluation of Regard for Finding Efforts to Create Trust and Affiliation", e.g., leveraging politeness measures to determine foreign influence in tweets adding that the project also addresses broader socio-behavioral aspects, beyond "politeness", e.g., conversational "moves" for the purpose of engaging a social engineer and potentially detecting their actual identity.

Dr. Ford also announced that IHMC has been selected by DARPA (out of 20-30 participating sites) to run an 80-100-person hackathon/PI meeting for the DARPA ASED program: January 13-17, 2020. He explained that IHMC Ocala leads the "Panacea team" in the ASED Program, but the team includes collaborators in Pensacola, where this event will be held. He commented that the hackathon is a required week-long event for all teams in the DARPA ASED program, with a competition to engage social engineers in a "human-like" way. He added that there are 10 teams in this competition, with an average of 3 organization per team mentioning that IHMC's team is led by Adam Dalton (PI) and also includes Bonnie Dorr (co-PI), Archana Bhatia, Larry Bunch, Peter Pirolli and that this IHMC team is a sub to SUNY Albany.

Dr, Ford continued his research report commenting that Dawn Kernagis has been awarded approximately \$340K in funding from ONR which will attempt to address performance issues facing US warfighters in extreme conditions by the use of exogenous ketones. He remarked that during high-intensity operations, a gap has been identified in providing soldiers the ability to sustain the high level of physical and cognitive output necessary to complete long duration mission sets. He added that in addition to the physical performance benefits of ketosis that have been demonstrated in numerous studies, research has shown that ketosis improves spatial memory impairment caused by hypobaric hypoxia, in addition to conferring neuroprotective effects in a variety of conditions, including CNS oxygen toxicity.

Dr. Ford also mentioned that Dr. Sharon Heise and Dr. Alessandro Morelli have been awarded \$2.7M with \$12,365,348 in options in a new Cooperative Agreement by the US Army Research Laboratory to explore research in the area of Intelligent Systems. He informed the Board that the objective of this effort is to explore, experiment with, and otherwise leverage an array of new technologies that can be combined with new and existing solutions to design and build intelligent systems capable of addressing the challenging problems faced by the US Army in multi-domain operations. He stated that areas of research will include Internet of Things, Edge Computing, Intelligent Information Management, and Robotics and that much of the focus of the research will be for tactical environments. He concluded by stating that this looks like an exciting program that fits squarely in IHMC's subject matter expertise.

Dr. Ford also mentioned that Dr. Jeff Philips has recently been awarded a contract of approximately \$1M working with AFRL titled *Identification of Hypercapnia through Voice Analysis and Associated Neurological and Performance Effects*. He explained that the objectives of this program are to develop a system to identify hypercapnia and categorize its severity through real-time analysis of operator speech. In addition, he added, the IHMC team will measure the performance effects of three levels of hypercapnia through psychomotor performance using a Performance Assessment Tool and measure the effects of hypercapnia on neurological status through oculometric indices.

In July, Dr. Ford stated, IHMC hosted the Air Force Sustainment Innovation Summit. He explained that sustainment is a critical function to maintain performance legitimacy of USAF weapon systems adding that viable USAF fleets of aerospace vehicles operating at optimum performance are essential to US national security and that of its allies. He mentioned that the intent of this summit was to bring together the key players across various sectors that have similar or relevant sustainment challenges, and/or have helped solve these challenges, and identify innovations and

technological advancements that can greatly improve the USAF's sustainment function and capabilities.

Dr. Ford continuing by informing that Board that in August, IHMC hosted an IHMC Blue Sky Summit review of the State of Art for Therapeutic Applications of CBD and THC. He explained that this Summit brought together thought-leaders to have an open conversation regarding past, present, and future scientific research concerning the potential medicinal benefits of cannabidiol (CBD) and tetrahydrocannabinol (THC).

Summing up the research section, Dr. Ford stated that very recently...as in the last few days, IHMC hosted a Blue Sky for USSOCOM relating to Leveraging Carried Capacity in a Tactical Environment. He informed the Board that SOF Forces carry many high-performance computing devices during operations, such as smart phones, tablets, and computers, but most of that computing capacity sits idle most of the time. He added that the Challenge is to address how might USSOCOM leverage the computing and sensing resources carried into the tactical environment and that this Blue Sky will look at possibilities of utilizing Edge, Fog Computing or other technologies to unlock new capabilities, or enhance existing capabilities, by connecting existing computing resources.

Dr. Ford also added that IHMC researchers have been busy proposing new work and have approximately \$7M in sponsored research projects in the negotiation phase. He briefly discussed several of these including two Office of Naval Research awards pending which total roughly \$2.2M., one in *Human Glymphatic Functions in Extreme Environments* where Dawn Kernagis and her team will identify how glymphatic function and associated CNS-linked immune response is affected by extreme environmental exposures. He also mentioned a second project titled *Development of an Underwater Oculometric Assessment Tool* part explaining that in this research, Dr. Kernagis and her team aim to develop a pressure resistant, diver mask fitted oculometric neurologic assessment tool adding that this tool will be tested for its ability to capture eye movement patterns associated with hypoxia and hypercapnia.

Dr, Ford mentioned three pending awards to Dr. Matt Johnson totaling more than \$4.4M. He explained that the first is an AFRL effort titled *Airman Decision Making and Interface Research (ADMIRE)* with a focus on developing and testing interface prototypes that will address missions where multiple operators actively coordinate and collaborate in the management of multiple, multi-domain UVs. The second effort he discussed which Dr. Johnson has pending is an SBIR partnering with Modus Operandi to continue development of the *Runnable Environment for Team Effectiveness and Assessment Metrics (reTEAM)* platform demonstrated in the Phase I effort by adding the social sensors and analytical capabilities required to drive scalable visualizations and a predictive outcome-based recommendation engine. Finishing up, he discussed Matt's third project pending negotiations (and the most significant by far) being a \$3.8M effort slated to be part of a DARPA program titled *Artificial Intelligence for Successful Teams (ASIST)*. He explained that the IHMC team has developed and plans to utilize an innovative predictive computational theory called *Predicting Effective Performance in Teams (PEPT)* based on a unique approach to modeling teamwork called Interdependence Analysis (IA). He explained that this program aims to generate detailed effect size predictions about team processes and performance, make predictions about the

effects of interventions and perturbations, and inform improved designs of machine teammate architectures.

Turning to the new Ph.D. program, Dr. Ford commented that this is off to an excellent start this summer with the joint hire of Dr. Brent Venable. He added that as many may recall, Brent will split her time between IHMC and UWF informing the Board that she started August 8th and jumped in with both feet developing courses for the 5 inaugural students who began the program in late August. He reminded the Board that Dr. Venable joins the UWF-IHMC team from Tulane University, where she held a joint appointment as a full professor of computer science and research scientist at IHMC adding that Brent has broad expertise in AI and related topics, and we are fortunate that she has agreed to take this position. He explained that the newly established intelligent systems and robotics doctoral program centers on developing leading-edge software and hardware technology addressing both the human and machine elements concluding his comments by saying that this is the first of its kind in Florida and one of only a few in the nation, and that the program will produce graduates who will enjoy excellent employment options in academia, government, and industry. He stated that the inaugural cohort of five students include two that transferred from Tulane and three that either previously or currently work at IHMC, two of which are UWF alumni.

Dr. Ford then informed the Board that IHMC will be hosting our Science Advisory Council (SAC) on Sunday, October 20th and 21st and that SAC members attending include: Al Harms, Paul Kaminski, Larry Lemanski, Dwayne McCay, JoAnn Morgan, Bill Mularie, Alain Rappaport and Morley Stone. He stated that IHMC will host a dinner at the Lee House on Sunday evening followed by a full day of research briefings from IHMC including our newest scientist Andrew Koutnik and also including Dawn Kernagis, Tim Broderick, James Allen, Peter Pirolli, Adam Dalton, Peter Neuhaus and Brent Venable. At these meetings, he commented, the SAC typically asks to meet new researchers or new research areas coupled with some established areas not examined in their previous visit. He added that the SAC is a particularly helpful group as they often identify potential funding opportunities or suggest new areas of research that are well funded that IHMC might wish to explore. He explained that IHMC is excited to welcome Morley Stone to this group adding that Morley recently joined Ohio State University as Senior Vice President for Research and we are looking forward to future collaborations with Ohio State. He concluding by commenting that Morley has over 25 years of research experience and prior to coming to OSU, he served as chief technology officer for the U.S. Air Force.

Dr. Ford then turned the discussion to facilities adding that one may surmise from the research report and recent new hires that we are once again out of space and that this is a good problem to have and we are rising to the challenge. He informed the Board that in late June we executed a lease with Andrews Research and Education Institute in Gulf Breeze to lease 600 feet of lab space and some additional office space where IHMC will soon be installing some human performance research equipment at this location including a reduced oxygen breathing environment and a realistic shooting simulator. He explained that this lease combined with an affiliation agreement with Andrews should lead to some great collaborations and last Wednesday evening we hosted our first collaboration event and welcomed about 20 Andrews doctors to IHMC to meet with IHMC researchers and scientists. He showed a schematic of the layout and where the IHMC space is on the first floor of Andrews.

Dr. Ford also stated that we are very grateful that this Board had the wisdom to approve the purchase of the two-acre lot on the corner of Alcaniz and Garden St. and explained that we are beginning discussions of the best use of that space and will certainly keep everyone posted on these discussions and we welcome everyone's input and ideas. He commented that overall our Pensacola facilities are working out well and we have begun making a list of preventative maintenance issues and scheduling these throughout the year in order to avoid large unresolved maintenance issues all at once.

Turning to Ocala, Dr. Ford mentioned that the IHMC Ocala team has continued working on our facilities projects and we are happy to say, that we feel the building is running quite smoothly and the problem areas have been addressed or are being addressed. He remarked that the current team had a "dry run" prepping for Hurricane Dorian, that was predicted to cause major problems, and fortunately never showed up but we are now prepared with supplies and knowledge for any others storms that may come our way.

He continued on by mentioning that the city of Ocala will begin working on our grinder pump in November and that this represents an approximate donation of \$60K. He explained that according to the City, this pump will give us a 99% solution to our storm water sewage issue on the first floor, allowing us to move forward with our renovation plans and fundraising for that area. He added that IHMC is currently working on the case statement preparation for that project.

Turning to outreach efforts, Dr. Ford mentioned that once again, IHMC has hosted a wonderful collection of guest lectures and as always, they were very well attended. In September, he stated, the IHMC Pensacola office hosted Francesca Rossi who is the IBM AI Ethics Global Leader and Distinguished Research Staff Member at IBM Research. He commented that amongst other topics, Francesca discussed the idea that as technology increasingly becomes part of the products and services people use at work and at home every day, the power of AI technology must be balanced with a responsible approach, applying ethics to address societal impacts and build trust. He explained that Francesca provided great insight on the AI ethics environment that needs to be built in order to define and build trustworthy enterprise AI. Dr. Ford announced that in October, Pensacola will welcome Dr. Doug McGuff who will discuss the concept of physiologic head room adding that Doug will show how a brief and infrequent regimen of high intensity exercise can reverse the diseases of modern civilization and how the new science of myokines (hormone-like substances released by working skeletal muscle) make this possible. He announced that in November, IHMC Pensacola will welcome Dr. Natalie Ebner who is currently an Associate Professor in the Department of Psychology in the College of Liberal Arts and Sciences at University of Florida and holds an adjunct faculty position in the Department of Aging & Geriatric Research and is affiliated with the Institute on Aging, the McKnight Brain Institute, as well as the Florida Institute for Cybersecurity Research. He stated that we will wrap the calendar year up in December when we host Megan Roberts who will discuss the potential for ketogenic diet to extend healthspan and lifespan.

In Ocala, Dr. Ford stated that we kicked off its Evening Lecture Fall Season in September, with Dr. Andrew Koutnik who has recently joined IHMC as a Research Scientist. He continued by stating that Mark Emery will present his lecture on October 24th adding that Mark is a two-time Emmy Award-winning filmmaker who grew up in central Florida in the sixties and early seventies

commenting that his career began with wrestling alligators and milking rattlesnakes at Ross Allen's Reptile Institute at Silver Springs. Dr. Ford informed the Board that Mark's most recent work involved sixty days of photographing moose in Alaska with National Geographic mentioning that his images have appeared in the National Geographic Magazine, National Geographic Online, London Times, Outside Magazine, Outdoor Life, Field and Stream, Florida Sportsmen, Northwest Fly Fishing and in many national and international commercials. He commented that the talk will feature Mark's latest feature film, "Out of the Mist, A Silver River Story", a documentary featuring 200 years of experience and stories on the Silver River told by its legendary glass bottom boat drivers. Dr. Ford continued by stating that Dr. Art Devany will present on November 15th in Ocala, adding that Dr. Devany is an economist known for his work in the Hollywood film industry but is perhaps best known, however, as the grandfather of the Paleo Diet. He explained that Dr. Devany believes there is no such thing as healthy aging and that we can intervene to protect against some of the worst aspects of the aging process. Dr. Ford stated that the fall lecture series concludes on December 10th, with Andrew Taggart lecturing at our Ocala facility. He remarked that Andrew has cultivated a unique approach into what he calls "practical philosophy" and that he is able to bring all sorts of different philosophical schools of thought to the table, but most of all, he's interested in helping people live the greatest lives that they can live. Dr. Ford commented that Andrew tackles the hard questions like: what is a good life, how do you cultivate one, what does it mean to have a life with inquiry, and what does that mean for each and every person? He explained that these are the questions Andrew uses to help others incorporate philosophy into their modern, everyday lives.

Dr. Ford announced that Fall Science Saturdays have begun and our September classes were full and had waiting lists in both locations. He stated that Ocala Science Saturdays got off flying with Dr. Ian Perera's presentation of *Paper Helicopters* on the 7th. Also, worth noting, Dr. Ford informed the Board that a parent (who tells us he was formerly an aviation engineer and is now an educator) complimented Ian on the quality of his presentation and knowledge about helicopters and flight. He mentioned that next up, tomorrow on October 5th in Ocala is *Investigating Florida's Springs* with Scott Mitchell, Director of the Silver Springs Museum. He added that we continue November 2nd, when Adam Dalton will demonstrate *Hacking for the Good Guys*, followed up by Dr. Archana Bhatia on December 1st with *Brain Games*.

Also, Dr. Ford informed the Board that some great news is that Eleanor and Gary Simons reupped their sponsorship for Ocala Science Saturdays donating \$3,000 and that this is twice as much as they have donated in the past. He stated that other sponsors include Lockheed Martin, Ron and Phyllis Ewers and Ocala Electric.

Dr. Ford continued his discussion mentioning that in Pensacola, we started strong with Dr. Peter Neuhaus on September 21st with *Electric Motors*. He added that this will be followed by a favorite on October 19th, *Balloon Cars* with Dr. Chris Wetekam-Schmidt. On November 16th, he mentioned that Science Saturdays will feature Dr. Dom D'Agostino on *NASA's NEEMO Mission* and that we will wrap up Pensacola on December 14th with *Reaction Time* by Dr. Pat Hayes.

Dr. Ford informed the Board that we are happy to report that we received \$7,000 from Gulf Power for two seasons of Pensacola Science Saturdays and that the Escambia County Sheriff's Office continues to sponsor this popular series.

Dr. Ford also announced that this past summer, IHMC hosted two very successful, well attended robotics camps in both Pensacola and Ocala. He commented that in Pensacola, our first week of summer robotics camp was held beginning June 3rd for Rising 7th and 8th graders and that Heath Parr led the class once again, adding that Heath has been the instructor for the past 4 years and is a teacher and Robotics Club instructor at Brown Barge Middle School. He stated that the intermediate camp or Week 2 of the Pensacola camp was held the week of June 17th. Dr. Ford told the Board that IHMC also used volunteer interns and these include 3 former campers and that Pensacola robotics camp sponsors include Best Buy, AppRiver and the Escambia County Sheriff's office.

He added that in Ocala, Robotics Camp was held the weeks of July 8th – 11th and July 15th – 18th and Sponsors included: Career Source; Renasant Bank; Lockheed Martin; Ocala Electric; and Rich Bianculli. He stated that Dr. Gregory Cruz, from Vanguard HS, returned as the instructor making this his seventh year and the Ocala high school volunteer interns included one former camper. Dr. Ford also mentioned that our long-time volunteer, Alex Phipps, has been very active at robotics camp and also Science Saturdays and that Alex sports a GPA of 4.3 in the IB Program, an ACT score of 35, and his SATs are both over 700. He mentioned that Alex's number one school choice is Carnegie Mellon, for computer science and robotics and that in addition to our goal to keep young kids interested in Science, we are happy to see these success stories as our programs gain some longevity.

D. Ford also informed the Board that we were excited to continue our relationship with the Boys and Girls Club of Ocala, who sent several of their interested students to participate. He added that IHMC also welcomed several of our local Marion County teachers who are taking what they learned back into their schools to engage area middle-schoolers and that as a result, we have loaned 12 robotics kits to one North Marion Middle School teacher who attended, and they are currently introducing over 200 students to robotics this semester!

Dr. Ford also updated the Board on STEM -Talk stating that since our last board meeting, we have produced and released 7 more episodes of STEM-Talk and we are nearing 100 episodes and 2 million listeners. He explained that STEM-Talk has become a major outreach success for IHMC and we just learned that STEM-Talk once again received the "People's Choice Award" in the Science & Medicine category.

Summarizing his comments, Dr. Ford thanked all of the Board members for their continued confidence in IHMC. He added that he speaks for all of IHMC when he says that we truly appreciate your time and commitment to the Institute. He then informed Chair Dalton that he had concluded his report.

Chair Dalton thanked Dr. Ford for his report and asked the Board members if they had any questions or additional items to discuss. Hearing none, he adjourned the October IHMC Board meeting at 9:45 am central time.

Respectfully submitted,

Julie Sheppard

Corporate Secretary