

IHMC Board of Directors
Meeting Minutes
Monday, June 10, 2024
8:30 a.m. CST/9:30 a.m. EST

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

Action Items

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| 1. Approval of March 4, 2024 Minutes | Chair Bill Dalton |
| 2. Discussion of IHMC Financials | Director Dick Baker |
| 3. Discussion/Action on 2024-2025 Meeting Dates | Chair Bill Dalton |
| 4. Discussion and Action on Exclusion Resolution | Chair Bill Dalton |

Chief Executive Officer's Report

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| 1. Research Update | Dr. Ken Ford |
| 2. State & Federal Legislative Update | Dr. Ken Ford |
| 3. IHMC Transition Discussions | Dr. Ken Ford |

Break and Group Photo
Board Tour of New Facility
Adjournment

IHMC Chair Bill Dalton called the meeting to order at 8:30 a.m. CST. Directors in attendance included: Dick Baker, Bill Dalton, Ron Ewers, Eugene Franklin, Eric Nickelsen, Mort O'Sullivan, Jay Patel, Jim Reeves, Ray Russenberger, Martha Saunders, and Glenn Sturm. Also in attendance were Ken Ford, Morley Stone, Tim Broderick, Ronnie Armstrong, Phil Turner, Ryan Tilley, Alan Ordway, Carol Carlan and Julie Sheppard.

Dr. Dalton greeted everyone and commented that he hoped everyone enjoyed dinner last evening with Chef Blake Rushing at UPH. He thanked everyone for being in attendance in person and also those who dialed in via Zoom and informed the Board that there were four items to discuss followed by Dr. Ford's report.

He introduced Action Item 1 and after asking if everyone had reviewed the minutes he asked for an approval of the March 4, 2024 minutes. Director Saunders moved approval followed by Director O'Sullivan's second. With no discussion, the motion passed unanimously.

Chair Dalton then introduced Agenda Item 2 asking Dick Baker, IHMC Chair of Finance, to discuss the current IHMC financials. Director Baker discussed the financials as of April 30th stating that there was a 39% revenue increase with contracts and grants up by 24% and state revenue also up. Chair Dalton thanked Director Baker and asked for any questions or discussion on the financials. Hearing none, Chair Dalton introduced Item 3.

Dr. Dalton stated that for Agenda Item 3, there is a discussion and action item on a Meeting Schedule for 2024-2025 to include 4 scheduled meetings to be held as follows: a Teleconference 8:00 a.m. CST: Monday, September 16th, 2024; a Teleconference 8:30 a.m. CST: Monday, December 2nd, 2024; a Teleconference 8:30 a.m. CST: Monday, March 3rd, 2025; and concluding the fiscal year with our annual In Person Meeting: Sunday/Monday, June 8th and 9th, 2025, in Pensacola.

Director Saunders moved approval of the 2024-2025 meeting schedule which was seconded by Director Baker. Hearing no discussion, the schedule was unanimously approved.

Chair Dalton then introduced Agenda Item 4 involving the Discussion and Action on an Exclusion Resolution involving IHMC's Security Clearance. He explained that this Agreement reflects that IHMC Board Members, considered Key Management Personnel, do not require or receive access to any classified information held in IHMC's custody. He explained that this document was a requirement for IHMC to maintain its security clearance and the resolution will need to be signed by all Board members and certified by Dr. Ford. Director Nickelsen moved approval which was seconded by Director Ewers. With no additional discussion or questions, the exclusion resolution action item passed unanimously.

Chair Dalton then stated he would ask Dr. Ford to provide his report which will be followed by a short break, a group Board photo and a tour of the new human performance facility.

Dr. Ford thanked Chair Dalton and said good morning to the Board of Directors adding that it was a pleasure to provide his report. He remarked that before he got started, he wanted to point out that the latest edition of the newsletter is out and everyone should have a copy.

Dr. Ford began his report starting with the State Legislative Update and reminding the Board that IHMC received \$5.2M recurring and an additional \$1M nonrecurring along with a \$1.1M water project funding for drainage improvements in the FY 2024-2025 state budget that was passed by the Florida Legislature in early March. He remarked that Governor DeSantis will undoubtedly use his line-item veto, but we believe IHMC will likely fare well.

He stated that as it is an election year, all legislative leadership and committee chairmanships will change for the next legislative session in 2025. He commented that Ben Albritton from Polk County and Danny Perez from Miami-Dade County will lead the Senate and House. He remarked that Committee leadership will probably be announced toward the end of the calendar year and that the Escambia County delegation in the House should remain the same with Representatives Salzman and Andrade and that in the Senate, Don Gaetz will likely replace Doug Broxson. He added that the Marion County delegation will have a couple new House members, while long-time IHMC ally Stan McClain will likely become the next Senator for Marion County.

Dr. Ford stated that the State budget outlook remains optimistic, with Florida's economy performing well and tax receipts continuing to be strong and that revenue estimations will be assessed on their regular schedule, but we will continue to monitor revenue estimates.

Dr. Ford informed the Board that on May 8, 2024, IHMC hosted J. Alex Kelly, Florida's Secretary of Commerce for his first stop on a familiarization tour of Northwest Florida. At this visit, in addition to a robotics lab tour in the Levin Center, Dr. Morley Stone and our team were able to share the progress we have made in the creation of a regional research and technology cluster with partners in industry and higher education and that in short, IHMC was delighted to highlight the economic diversification of Northwest Florida.

Dr. Ford then turned his discussion to Federal Legislative Update and stated now that the federal budget has been passed, IHMC is actively pursuing new federal opportunities and there is generally strong bipartisan support for research and development.

Dr. Ford then began to discuss new IHMC teammates stating that he was pleased to announce that we have hired one Research Scientist, and six research associates since we last met. He added that in addition, we are particularly pleased to have a new Director of Facilities and Planning Operations.

Dr. Ford informed the Board that Dr. Mark Orr joined IHMC in May of 2024 as a Research Scientist adding that Mark most recently worked as an Associate Professor at the University of Virginia in the Biocomplexity Institute. He stated that Dr. Orr was originally trained as a cognitive psychologist at the University of Illinois and that he received augmentation to this training with postdoctoral fellowships in computational modeling at Carnegie Mellon, neuroscience at Albert Einstein College of Medicine, and epidemiology/complex systems at Columbia University. He ended by stating that Mark will be a great addition and that he has worked closely in the past on joint projects with IHMC.

Dr. Ford informed the Board that Kian Agrawala joined IHMC full-time in May 2024 as a Research Associate and that previously, he had worked as an intern working with Dr. Matt Johnson and his team on the DARPA Artificial Social Intelligence for Successful Teams project. He stated that Kian graduated from Rutgers University Honors College with a double major in mechanical engineering and computer science and that IHMC is happy to welcome Kian back as a full-time employee.

Dr. Ford continued his discussion of new employees mentioning that Sean Bridges joined IHMC in May 2024 as a research associate working with Dr. Gwen Bryan and her team on exoskeletons and related projects. He informed the Board that Sean earned a bachelor's degree in mechanical engineering at the University of West Florida and previously spent time as an IHMC intern working with the exoskeleton team.

Dr. Ford also remarked that Kevin Carff joined IHMC as a Research Associate in May 2024 working with Dr. Matt Johnson and his team adding that Kevin earned his bachelor's degree at the University of West Florida in computer science, where he is pursuing his master's degree as well.

Following up with new hires, Dr. Ford informed that Board that Garrett Lundegard joined

IHMC in April 2024 as a Research Associate working with Jared Li on exoskeleton projects. He added that as an electrical engineer, Garrett will work on both the Squadbot robotics program and our Department of Energy exoskeleton project commenting that Garrett earned a bachelor's degree in electrical engineering from the University of Maryland, and a master's degree in biomedical engineering from Hamburg University of Applied Science.

Dr. Ford also mentioned that Zoe McCurdy joined IHMC as a Research Associate in May 2024 working with Dr. Toshi Miyatsu and his human performance team in the cognition and computational neuroscience unit. He stated that Zoe earned a bachelor's degree in psychology from the University of West Florida and was part of the Kugelman Honors program there.

Dr. Ford also informed the Board that Nicole Stafford joined IHMC in June 2024 as a Research Associate working with Jared Li and the exoskeleton team as a mechanical engineer. He added that her interest in working with the complex interactions of humans and machines was spurred by her experience as a Division I athlete at Stanford University, where she experienced a functional movement disorder, as well as her research experience working with multiple patient populations.

Finishing up his comments on new employees, Dr. Ford stated that Josh Ruth joined IHMC in mid-May as IHMC's Director of Facilities and Planning Operations adding that Josh has more than 20 years of experience in the medical facilities field and joins us in a timely manner as we bring our new Healthspan, Resilience and Performance Research Complex online. He added that Josh's previous career included working at Ascension Health managing their facilities across the southeast.

Dr. Ford then turned to an update on facilities commenting that the new Healthspan, Resilience and Performance Research Complex has now received its certificate of occupancy adding that many punch list items are being resolved. He stated that personnel and existing equipment are currently being moved into the building and that additional equipment has been ordered and will be received in May and June for installation.

He continued the facilities discussion stating that the HVAC Project at 40 S. Alcaniz St. is underway and that the construction documents will be completed by the end of the month. He stated that we should have pricing from three local HVAC firms and award of the contract will be completed by mid-July and that upon award, equipment will be ordered and installed by fall 2024. He added that the replacement generator has been ordered and should be installed by mid-August.

Dr. Ford also updated the Board on the secure facility indicating that this new facility project has received approval for \$4M from Triumph and that preliminary design meetings with IHMC staff and the architects are underway.

Dr. Ford concluded his facility report mentioning that the drainage project, as mentioned earlier, has received funding for the upgraded drainage system, table crosswalk, and pervious pavers and is currently in the legislative budget awaiting final signature of the Governor. He

explained that projected completion is expected to be Spring of 2025.

Dr. Ford then turned to Triumph stating that this funding remains instrumental in advancing our Healthspan, Resilience, and Performance research initiatives. He explained that since the approval of our grant, IHMC has judiciously allocated approximately \$12M towards the acquisition of cutting-edge equipment and the recruitment of skilled researchers. He explained that these Triumph funds have been pivotal in establishing our state-of-the-art facility and facilitating the addition of 23 new team members. He added that as previously discussed, the swift integration of these personnel into significant research projects has maximized the utilization of funds beyond initial projections.

He continued by mentioning as everyone is aware, IHMC's third proposal to Triumph Gulf Coast, resulted in a second modification of our existing grant and an infusion of an additional \$7.9M explaining that this supplement builds upon previous increments of \$5.8M and \$6.1M, culminating in a total award of approximately \$20M. He stated that Triumph's recognition of our continued achievements underscores their confidence in our programs and that these newfound resources will sustain our momentum by enabling further equipment procurement, personnel expansion, and the establishment of a secure facility. He commented that the implementation of this facility aligns with IHMC's commitment to meeting stringent federal security standards, thus enhancing our ability to pursue and fulfill new government grant and contract opportunities adding that we are currently in the planning stages for the secure facility buildout and will ensure regular updates to this board as progress unfolds.

Dr. Ford then turned to his research update stating that he was happy to report that IHMC continues to be successful with new research funding and that between our March meeting and today, we've received award notice or are under contract for approximately \$4M in new research funding. He added that he would report on three of the new funded projects.

Dr. Ford then informed the board that Larry Bunch has received an award of \$2,613,235 from the Office of Naval Research for a project for the Test and Evaluation Data Observatory for Multi-Doman Operations. He explained that the overall goal of the proposed project is to develop advanced T&E data visualization and analysis tools and apply these tools to support air warfare and naval weapons applications.

He also stated that Dr. Mark Orr has secured a DARPA award in the amount of \$629,856 for a project known as SCALE: or the Sociotechnical Architecture Leveraged for Explanation. He remarked that the objective of SCALE is to test the feasibility of a revolutionary approach for automating the explanation and prediction of human social behavior. The SCALE platform will take human input in natural language as a query about human social behavior and return to the user an explanation that is generated not only from the existing theoretical and applied scientific literature but also from a set of simulations, using a cognitive architecture, that will test relevant hypotheses about the behavior in question. Dr. Ford explained that explanations of human behavior are critical when an operational objective is to help people adopt behaviors that will mitigate risk, such as prior to, during, and after a natural disaster adding that for this effort, we will target the domain of disaster evacuation.

Dr. Ford also mentioned that Sylvain Bertrand has received an award from NASA in the amount of \$222,471 titled Mobility and Planning Algorithm for NASA's Valkyrie Robot. He also updated the Board on grant and contract submissions stating that since January 1st, IHMC has had 93 submissions with 61 being full proposals and 32 being white papers and abstracts for a total value of submissions to date of \$97,988,429. Dr. Ford also called attention to Dr. Marc Bamman's proposal which scored high at the NIH review, explaining that we are hopeful for this funding adding that this proposal would simply test the innovative, but logical, strategy to use combined endurance training and resistance training to maximize health benefits in aging adults.

Dr. Ford then turned the discussion to workshops and conferences commenting that during the week of May 13th, Senior Research Scientist and Associate Director, Dr. Niranjan Suri, hosted a NATO conference of experts in cybersecurity, artificial intelligence, and computer science explaining that Suri's work for this group in the past has focused on how connected smart devices from both the civilian and military worlds could be leveraged for disaster response, emergency responses and military scenarios. He also stated that on May 27-30, IHMC hosted the 20th annual Dynamic Walking Conference, which gathers experts and researchers in biomechanics, human and animal locomotion, prosthetics, orthotics, robot design and control, wearable robotics and exoskeletons. He commented that the event was held at the Pensacola Beach Hilton with the opening reception held on the roof of the Levin Center mentioning also that it has been six years since IHMC previously hosted the conference, which rotates between the United States and Europe. He remarked that the 2023 conference was hosted in Munich by DLR, the German Space Agency adding that the conference typically attracts some 200 researchers from around the world.

Dr. Ford then stated that he was very pleased to announce that Dr. Robert Griffin has been named co-chairman of the IEEE Robotics and Automation Society Technical Committee on Humanoid Robots, representing the Americas mentioning that the IEEE is the premier professional organization in the field. He commented that Griffin's selection to co-chair the technical committee reflects the high regard for his work and for IHMC's leadership in the field of humanoid robotics adding that IHMC has been a pioneer in the field of humanoid robotics and Robert's selection to the IEEE RAS Technical Committee is a much-deserved accolade for him and for the team at IHMC.

Dr. Ford then turned the discussion to Ocala stating that the Ocala facility has seen a steady flow of activity this spring and recently hosted a series of city meetings and public forums regarding downtown parking, redirection of traffic, homelessness, and housing issues. He added that the last meeting in this series will be held in early June. He also informed the Board that building maintenance at our Ocala facility is all current.

Dr. Ford then discussed the Ocala Spring evening lecture series remarking that it has been very well attended and ended May 30th with Dr. Mark Lupo discussing individualizing care for thyroid nodules and thyroid cancer. He stated that there will be one additional bonus evening lecture on June 27th, with Dr. Jose Gaudier giving the talk, "The Olympic Science and Glory" preceding the opening of the Paris Summer games. He explained that in Pensacola we recently

concluded our Evening Lecture Series for the Spring with Dr. Stefan Pasiakos on May 23rd discussing the Pathophysiology of Stress During Strenuous Military Operations and the Role of Essential Amino Acids in Health and Performance

Dr. Ford also updated the Board on Science Saturdays commenting that the winter/spring season of Science Saturdays ended in April in both Pensacola and Ocala. He stated that parent surveys were sent out and responses are still coming in but so far, the results are good, as usual adding that the data is fairly similar in both locations. He commented that attendance remained strong for Science Saturdays, with 25 or more students participating in most sessions mentioning that there is typically greater participation in the 3rd/4th grade session. He also stated that parents of a number of sixth graders, especially in Pensacola, say their kids are disappointed not to be able to participate after sixth grade.

Dr. Ford updated the Board on the upcoming Pensacola dates for Robotics Camp for the weeks of June 17th and 24th and mentioning that in Ocala, the dates are the weeks of July 8th and July 15th. He commented that the Pensacola sessions are full at this time, with 20 in the first session and 21 in the second adding that we expect both sessions in Ocala to fill up as well. He mentioned that IHMC may also have a few “teacher campers” in Ocala, who will attend and take their camp experience back to their classrooms with them. He also updated the Board that in Ocala we have a new guest instructor — Mr. Isaac Ishak, a math teacher at Vanguard High School, who will be replacing Greg Cruz. Dr. Ford commented that Isaac participated in camp last year as the assistant instructor adding that we are excited to have a new, young, fun teacher and are confident the students will enjoy camp with him.

He mentioned that sponsors for robotics camp in Ocala include: an anonymous donor; Lockheed Martin; Marion Regional Manufacturer’s Association; Career Source Citrus; Cox Cable; Ocala Mac Users Group; and Ocala Electric Utility. He also informed the Board that in Pensacola Cox Cable is the primary sponsor for Robotics Camp.

Dr. Ford also mentioned that in April, IHMC held the annual Robotics and Science Open House and saw more than 400 guests visit the campus. He stated that the event was featured on radio and podcasts for WCOA, WEAR-TV3, the Pensacola News Journal, and InWeekly, commenting that this family-friendly event is a community favorite and encourages scientific discovery through hands-on activities, challenges, and demonstrations while providing the opportunity to learn. He added that visitors meet IHMC researchers and see first-hand their work in drones, robotics, virtual reality experiences, and human performance.

Dr. Ford then turned the discussion to philanthropy and asked Carol Carlan to provide a brief philanthropy update. Carol thanked Dr. Ford and discussed the past year’s Better Together events and participation and informed the Board that a final event would be held this summer for people that had been unable to attend the prior sessions. She explained that the Better Together sessions had been very successful in getting people to understand IHMC and its cutting-edge research and its impact. She also informed the Board that she would be meeting with each Board member to see how they could help in the philanthropy efforts.

Dr. Ford thanked Carol for the update and turned the discussion to the next day ribbon cutting explaining that as everyone can imagine, we are excited about tomorrow's ribbon cutting for the Healthspan, Resilience, and Performance facility. He stated that IHMC has come a long way from that windy cold groundbreaking ceremony in February of 2023 mentioning that tomorrow we will cut the ribbon on this one-of-a-kind research complex. He remarked that this facility, and the scientists and engineers that it will host, will permit IHMC to be one of the few research institutions able to work effectively at all levels from a single molecule of interest, to a whole human, and even groups of humans and machines. He added that these unique capabilities will attract new and increased funding in federal grants and industry-sponsored research; bolstering, in turn, the regional economy adding that he hoped everyone would join us for this event.

Dr. Ford then turned the meeting to upcoming transitions, explaining to the Board that he has had the privilege of leading IHMC for over 34 years, 20 years of which as an independent organization. He stated that it is now time to plan for a variety of transitions, including a successor CEO. He commented that everyone has met Dr. Morley Stone stating that he believes Morley is exceptionally qualified to take the reins at IHMC. Dr. Ford explained that Morley currently serves as IHMC's Chief Strategic Partnership Officer and a Senior Research Scientist at IHMC adding that he understands and is skilled at all facets of research institute leadership. Dr. Ford mentioned Morley's prior employment, stating that as everyone will recall, Morley previously served as the Chief Technology Officer of the Air Force Research Laboratory where he was responsible for assisting with the planning and execution of an annual \$2.1 billion Air Force science and technology program and an additional \$2.3 billion in externally funded research and development. He explained that after leaving AFRL, Morley joined Ohio State University the Senior Vice President for Research overseeing a research budget of over \$1 billion.

Dr. Ford stated that over the next 6 months, the goal is to transition Morley into the leadership role adding that he planned to remain at IHMC in a supportive role and continue to help with many aspects of the continued development of IHMC. He commented that Morley will work closely with this Board and the Science Advisory Council on setting the direction for the next decade adding that we have discussed this evolution with Chair Dalton and he has been supportive of this plan.

Dr. Ford continued by stating that he envisions that with the approval from this Board, leadership responsibilities will transfer to Morley throughout the fall including hiring authority, signatory authority over all financial transactions, corporate responsibility, leadership and management, and setting the direction for the future of IHMC. He remarked that IHMC anticipates those resolutions for the transfer of authority to be addressed at the September and December Board meetings and asked each Board member to take the time individually to meet with Morley. Dr. Ford then asked Morley to make some comments.

Dr. Stone thanked Dr. Ford and addressed the Board remarking that he was honored to have the support of Dr. Ford and the Board and was looking forward to taking the reins at IHMC.

He added that he had already had the pleasure of getting to know many members of the Board and looked forward to connecting with all the Board members. After Dr. Stone's comments, both Morley and Ken opened the meeting up to discussion and a general conversation ensued about transition and timing. Individual Board members congratulated Morley on the transition and indicated that they looked forward to working with him.

Dr. Ford then thanked the Board for their continued support of IHMC and informed Chair Dalton that this wrapped up his report.

Dr. Dalton also congratulated Morley and commented that he looked forward to working with Morley through the transition. He thanked Dr. Ford for his very thorough report and announced to the Board the agenda for the remainder of the morning which included a short break, a group photo and followed a tour of the new Healthspan, Resilience, and Performance facility and concluding with lunch back at the Levin Center.

With those announcements, Dr. Dalton thanked the Board and the business portion of the June 10th meeting concluded at 10:15 am.

Respectfully Submitted,

Julie Sheppard
Corporate Secretary