

IHMC Board of Directors Conference Call Meeting Minutes  
Jan 20, 2012

Roll Call Chair Jim Reeves

Chair's Greetings Chair Jim Reeves

1. Approval of December 12, 2011 Minutes Chair Jim Reeves

Chief Executive Officer's Report

1. Research Update Dr. Ken Ford

2. Federal Legislative Update Dr. Ken Ford

3. State Legislative Update Dr. Ken Ford

4. Fundraising Committee Update Vice Chair Glenn Sturm

3. Ocala Building Update Dr. Ken Ford

Other Items

Adjournment

IHMC Chair Jim Reeves called the meeting to order at 8:00 am CST. Directors in attendance included: Ron Ewers, Eugene Franklin, Chuck Horner, Hal Hudson, Jim Reeves, Ray Russenberger, Gordon Sprague, Glenn Sturm, and Hal White. Also in attendance were Ken Ford, Sharon Heise, Julie Sheppard, Alan Ordway, Ronnie Armstrong and Jeff Hartley.

Chair Reeves welcomed the Board informing them that we had a quorum present to conduct business. He thanked everyone who dialed in this morning, noting that while it had only been 5 weeks since our last Board meeting, it has been a busy five weeks in the research world.

He commented that there were a number of items to discuss including Dr. Ford's CEO report, Glenn Sturm's fundraising update and an update from our legislative representative Jeff Hartley on happenings in Tallahassee. With those comments, he moved directly into the meeting introducing Action Item 1 being the Approval of the December 12, 2011 Minutes and asking for a motion to approve. Director Sprague moved the motion with Director Hudson seconding and the motion to approve the December 12<sup>th</sup> minutes passed unanimously.

Chair Reeves mentioned that this concluded the action items and asked CEO Ford to provide his report.

Dr. Ford thanked Chair Reeves and mentioned that well it had only been 5 weeks since our last Board meeting, IHMC believed it important to meet sometime during the state legislative session and that while this will be a fairly short meeting, it will include brief update on state legislative issues.

Dr. Ford began with the federal arena, noting that despite the challenging and uncertain legislative environment in Washington, IHMC continues to look for new opportunities and to build new relationships. He mentioned that despite expected cuts in defense overall, there is optimism that the Science and Technology budget will continue to be supported at roughly 2011 levels with possible increases in 6.1 basic and 6.2 applied research and that while this increase may be seen as coming at the expense of 6.3 advanced technology development, overall such an S&T budget would benefit IHMC since most of the research that we perform is supported by 6.1 and 6.2 funding.

He then turned to state legislative issues noting that as everyone knows, the State continues to have serious financial issues but that IHMC has maintained solid relationships with current and emerging leaders in the House and Senate. He commented that in fiscal year 2011-12 funding, IHMC survived in the state budget but received our lowest level of funding since inception at roughly \$1.49 million and that to date, IHMC has received  $\frac{3}{4}$  of that state funding in the quarterly cycles noting that we are due one more allotment, sometime in April, and that will complete the prior year's state appropriation.

He continued by stating that session began in January and as of right now, any chance any Board members have to put in a good word for IHMC is always appreciated especially as this year looks every bit as tough as the past three have been in Tallahassee.

Dr. Ford stated that the Governor's draft budget was made public on Wednesday December 7th with HMC is in this budget at 1,457,864 (line item 137) noting that while we are pleased to have this placeholder from last year, IHMC would like to begin to return the state funding to the FY 2008 level of \$2.9M. He added that this increased funding would help with overall recruitment and job growth in both Pensacola and Ocala and that IHMC appreciates all efforts this session to help us with this goal by talking to the Governor, his staff or Florida Representatives and Senators.

Dr. Ford then introduced IHMC legislative team member Jeff Hartley and asked him to update the Board on recent happenings in Tallahassee. Jeff thanked Dr. Ford and explained to the Board that in addition to the \$2 billion deficit, the focus in Tallahassee was on redistricting with the House and Senate bickering as to timelines. He informed the Board that the House wanted to finish timely while the Senate wanted to push the budget back and take a recess and return in Mid March/April to handle the budget. However, Jeff commented, the State economists have given no indication that the economic numbers will improve in the spring.

Jeff mentioned that the Governor's budget has requested a new \$1 billion for education in the K to 12 arena and cut \$2 billion from healthcare. He added that IHMC has great friends in both the House and Senate including the two chairs for higher education.

Chair Reeves asked Jeff about the Speaker's allocations and Jeff replied that the allocations from the house seemed fair to all committees with no major cuts to higher education. Jeff mentioned that it was Speaker Cannon's goal to pass the budget within four weeks. Jeff concluded his remarks and thanked Dr. Ford for the opportunity to address the Board.

Dr. Ford thanked Jeff for his report and turned to the fundraising committee update commenting that Andrew Young has continued to work to find some opportunities for IHMC. Dr. Ford then asked Vice Chair Glenn Sturm to update us on some of these opportunities.

Vice Chair Sturm informed the Board that Andrew Young was working diligently and had 8 visits scheduled over the next 60 days and added that IHMC now had \$755,000 in committed or received funds. He explained that the major piece of this was the \$500,000 received from a private donor for the exoskeleton research project Mina. Vice Chair Sturm mentioned the importance of unrestricted funding to IHMC and discussed the need for Board participation. He explained that with state funding of \$1.4 million, the main issue was sustainability and the need for an influx of unrestricted dollars.

Chair Reeves suggested that with an economy knee deep in non-participating real estate, that this was a great time to take real estate donations into IHMC's portfolio. He also added the value of life insurance and IRA's.

Dr. Ford thanked both Vice Chair Sturm for his report and Chair Reeves for his suggestions. Dr. Ford then turned the discussion to Ocala stating that at the last Board meeting, he had mentioned that IHMC had begun the Science Saturday program in Ocala, thanks to the generous donation made by Ron and Phyllis Ewers. He commented that attendance continues to run strong, and feedback has been unanimously positive. Dr. Ford mentioned that IHMC also recently sponsored Robopalooza, a robotics competition in the Marion County area that involves the Cornerstone School and Forest High School with IHMC designing the T-shirt for the event and printing it for the 100 participating youths. He added that the t-shirt was so well liked that the Cornerstone School has had requests from adults to purchase the shirt so IHMC gave them the design with permission to reprint and that hopefully, this may become a small fundraising item for them.

Dr. Ford continued his Ocala update mentioning that at the last meeting, Row mentioned the improvements to the IHMC Ocala facility. Dr. Ford updated these projects informing the Board that we have continued to address the water incursion problems in the building and just recently completed resealing the joints between the windows, which should not only keep horizontal rain from entering between the joints but also reduce utility bills. He added that while we have not noticed any additional leaks, there has not been a severe central Florida deluge in quite some

time, but we continue to monitor the situation and will take additional actions if warranted.

Dr. Ford noted that in other news, two Ocala administrative people recently departed. Lina Alvarez, who relocated to Tampa with her husband, and Rose Aguilar who retired due to health concerns. He informed the Board that IHMC has hired two part time and one full time replacement, and the new administrative team is showing great promise. He commented that we are especially happy to have brought aboard Ann Spang, former vice president of the Ocala/Marion County EDC and that Ann's official job title is "Assistant Director for Community Relations," and we expect her to be especially helpful because of her extensive network of contacts in the Ocala/Marion County region. Dr. Ford continued by mentioning that IHMC has also hired Michelle Steele and Mia Gottlieb to work part time at the front office, handling visitors and reservations for the various events as well as assisting with meetings and other IHMC Ocala needs concluding that it looks to be a great team. He also reminded the Board that Dr. Micah Clark would also be joining the Ocala team as a Research Scientist in February. Micah has been at Cal Tech's JPL for more than a decade and will be a great addition to the Science and Technology team at IHMC-Ocala.

Dr. Ford then began his research update explaining that while not long has passed since our last board meeting in December, even over the holidays, the grant process never sleeps and that as of today, several new awards have arrived, totaling approximately \$5.8 million in new funding over the past 5 weeks.

He detailed these new projects stating that Drs. Andrzej Uszok and Jeff Bradshaw received a \$1.5M 3-year contract with the Army's Communications and Electronics Research and Development Center to create a new policy management framework flexible enough to apply across multiple DoD platforms and application domains based upon the IHMC KAOs policy services framework which when applied to complex networked systems and intelligent automation, policy management ensures these systems operate under established guidelines and remain responsive to human control by, for example, preventing misuse such as unauthorized access to information.

He added that he was also pleased to report that work has begun on Dr. Peter Neuhaus' collaboration with NASA Johnson Space Center to jointly design, build and test lower limb robotic exoskeleton technology. Dr. Ford then showed the Board several slides of the NASA exoskeleton explaining that the current NASA exoskeleton device will benefit from IHMC's experience with our prototype robotic exoskeleton, Mina. He also added that IHMC researchers are particularly accomplished at developing control and gait algorithms for exoskeletons for a range of applications, including mobility assistance, rehabilitation, strength and speed augmentation, and exercise.

Dr. Ford informed the Board that the DARPA Metaphor program will hold its kick off January 24 and 25 in Washington DC, and Dr. Nate Blaylock will be representing IHMC at this meeting as part of a Carnegie Mellon University-led team. He reminded the Board that in December, this project was discussed and seeks to exploit the fact that metaphors are pervasive in everyday talk and, from an intelligence perspective, can reveal the underlying beliefs and worldviews of members of a culture. He explained that during IHMC's 5-year, \$3.3M part of the project, Nate, Dr. Yorick Wilks and Dr. Lucian Galescu would be using their expertise in natural language processing to develop methods for metaphor identification and interpretation, while Dr. Robert Hoffman will employ social science methods to validate metaphors and their meaning. He concluded the discussion of this project adding that IHMC's Dr. James Allen, a luminary in the field of natural language processing, will serve as an advisor to the overall project.

Dr. Ford commented that Dave Atkinson is gearing up for his workshop on Human-Machine Trust for Robust Autonomous Systems, to be held at the end of January at IHMC in Ocala. He explained that during this workshop, over 40 invitees from agencies such as the Office of Naval Research, the Air Force Research Lab, the Army Research Lab, and the Federal Aviation Administration, as well as numerous top-tier universities, will descend upon our Ocala facility to discuss topics such as earning, maintaining and assessing trust in autonomy. He informed the Board that the attendance list was impressive, including numerous federal program managers, agency chief scientists, major university scholars, and the Air Force's Chief Scientist, who will deliver the keynote address at this AFRL sponsored event.

Finally, Dr. Ford mentioned that an honor for IHMC and Pensacola, which will be to host the 2012 conference on Knowledge Systems for Coalition Operations in February and that IHMC's Drs. Niranjani Suri and Jeff Bradshaw will serve as local conference chairs. He explained that this particular conference has been an annual event since 1999, and it brings together practitioners and key decision makers in joint and coalition operations to discuss advances in knowledge-based systems, planning and multi-agent systems, and to exchange experience and ideas, share inspiration and suggest novel concepts. In the context of this conference, Dr. Ford noted, a coalition is considered a military, interagency, cross-organization or multi-national alliance engaged in a cooperative endeavor and joining forces for a common cause adding that past conferences have been held in Edinburgh, Toulouse, Prague, Southampton (UK), and Vancouver BC, and this puts Pensacola in some very good international company.

Dr. Ford then turned to intellectual property mentioning that, as some may be aware, there has been a major revision to the Patent Law in the United States as part of the new America Invents Act and that beginning in March 2013, the United States will join the majority of the world in a "first to file" system versus the United States' traditional approach of "first to invent." He added that this is a major change to the way the U.S. has operated in protecting Intellectual property and that IHMC have been repositioning to meet this change by holding discussions in Ocala and

Pensacola with all of our Principal Investigators to make sure that everyone was aware of these changes and to accelerate disclosures and filings. He concluded by informing the Board that we have our IP lawyer visiting on a monthly basis and will be filing many provisional patents in a very short time frame (3 to 4 weeks) to afford IHMC first protection until a major filing can be accomplished and that we will be trying to file a backlog before the new law takes effect. He ended by informing the Board that he would continue to keep everyone posted on how this change affects IHMC and its ability to keep pace.

Dr. Ford then shifted the discussions to the Evening Lecture Series stating that for this Spring Series, both Pensacola and Ocala are off and running and that IHMC is pleased once again in Pensacola to have the Clark Partington Hart law firm as a season sponsor. He asked the Board to let him know if anyone has any interest in attending dinner, meeting the speaker or sponsoring any of these lectures and that he would be happy to make that happen.

Dr. Ford mentioned that Science Saturdays is also going strong in both Ocala and Pensacola and the number of students registering continues to climb. He thanked the Ewers for their generous support of the outreach program in Ocala. He also explained that in Pensacola this year we are again heavily involved with National Robotics week and in addition to supporting some of the local competitions, we are again opening up the Robot Lab on Thursday April 12th from 4 to 7 pm noting that last year, IHMC had over 500 visitors to this event so it has been a local favorite here in Pensacola.

In concluding his remarks, Dr. Ford thanked everyone for the time they commit to this IHMC Board and thanked everyone in advance for any assistance they could provide IHMC this year in Tallahassee. Dr. Ford then thanked Chair Reeves and informed him that this concluded his report.

Chair Reeves thanked Dr. Ford for his report and then asked the Board if there were additional items to come before the Board. With no additional comments, Acting Chair Baker adjourned the meeting at 8:45 a.m.

Respectfully submitted,  
Julie Sheppard, Corporate Secretary