NDSU Computer Science Industry Consortium Program

Kick-off Meeting

January 4, 2011 – 10:00am – 1:00pm

NDSU Memorial Union – Meadow Lark room

Members in Attendance:

Philip Boudjouk, NDSU, Vice President of Research

Brian Slator, NDSU, Head of Computer Science Department

Dean Knudson, NDSU, Associate Professor CS Dept.

Anne Denton, NDSU, Associate Professor CS Dept.

Saeed Salem, NDSU, Assistant Professor CS Dept.

Nick Arends, American Crystal Sugar Corporation, Ag Strategy Development Manager

Brian Ingulsrud, American Crystal Sugar Corporation, VP Administration

Barry Bowers, RDO Equipment, Precision Products Manager

Todd Thompson, RDO Equipment, GM of Ag Sales

Jeff Lemna, RDO Equipment, GM of Aftermarket

Adrian Kallis, Phoenix International, Business Systems Manager

Paul Nystuen, Phoenix International, Advanced Technology Manger

Lanny Faleide, Agri ImaGIS Technologies, President

Ron Ellingson, Agri ImaGIS Technologies

10:00 – 10:15   Welcome – Philip Boudjouk, VP for Research

10:15 – 10:30   Introductions

    See Attached Table Chart

    NDSU – Brief overview of CS faculty, CS students and research Areas. Also collaboration with other departments at NDSU such as MIS and ECE.

    Phoenix – Has a long history working with NDSU in many areas

    Agri ImaGIS – Real-time analysis and imaging of fields

    RDO Equipment – Precision agriculture, dealer support of technology, sales and dealer network

American Crystal Sugar Corporation – Sugar beet growth, sugar beet refining

10:30 – 10:45   Discussion of bylaws (see attached draft, there are some areas like the marketing plan that are tentative)

Bylaws Item 1 – Should the ICP Policy Board have the Head of Computer Science Department or the Dean of the College of Science and Mathematics as members of the ICB board or both?

    Action 1 – All company representatives present to vote for ICP Policy Board member listed above

        Dean Knudson asked for Vote on 4 Options.
          Option 1 – Head of Computer Science Department
          Option 2 – Dean of College of Science and Mathematics
          Option 3 – Head of Computer Science Department and Dean of College of Science and Mathematics
          Option 4 – Head of Computer Science Department and Dean of College of Science and Mathematics to decide on member assignment.

    Discussion – No discussion

    Vote - All company's representatives voted Option 4. None Opposed.

    Action 1 - Option 4 Carried - Head of Computer Science Department and Dean of College of Science and Mathematics to decide on ICP member assignment.

Bylaws topic 2 – Discussion on changing the information in the bylaws to state that each company can choose to direct their money to whichever project they choose under the consortium.

    Regarding the possibility of having different types of memberships – no need was seen for that at present but it can be brought up again at an ICB policy board meeting at a future date.

Action 2 – All company members present to vote on changing the bylaws to state company can choose to direct their money to separate projects.

Dean Knudson called for vote 2 options
For
Opposed

Discussion –
- Initial comments favored making voting on all projects a group decision, and that focus on precision ag was needed
- Discussed idea of sub groups
- New companies might splinter original group
- Question regarding the number of projects that could be supported was raised. The answer was that no limit is foreseen since there are 17 CS faculty and over 400 students
- It was explained that the intention of the Consortium was to support CS related research projects no matter what area they fall into. The consortium can have multiple companies cooperating in precision Ag for sugar beets potatoes, soy beans etc. while other member companies work in areas such as testing in the cloud, AI etc. It was agreed that the consortium be open to all new companies.
- Other additional members may be interested in beans, corn, etc.
- Open door for additional research
- Open results to all Consortium groups

Vote – For individual project direction (companies can still have joint projects.)

Action 2 - It was agreed that the groups should be open to any company with that company being able to direct research in an area of interest it choses.

BYLAW Topic – Web site
Note for Website Administrator
- Add proprietary areas
- Create document storage area for downloads
- Create frequently asked questions and feedback areas

- Create blog or message area for members
- Instant chat area for members was mentioned
- Possible cell phone interface was discussed

10:45 – 11:00   Appointment of IAB Board
                            Election of IAB Board Chairperson

Bylaws topic 3 – Each company to appoint one member to the IAB Board

    Action 3 – Each company present appointed one member to the IAB Board

    Dean Knudson called for IAB representatives from each company.

    Phoenix International – Adrian Kallis
    Agri ImaGIS Technologies – Lanny Faleide
    RDO Equipment – Barry Bowers
    American Crystal Sugar Corporation – Brian Ingulsrud

    IAB Board Chair -IAB Board Members elect Adrian Kallis Chair

    Action 3 - Members and Chair Appointed/Elected

11:00 – 11:45   Project scope/goals/deliverables
                            Project status Dr. Anne Denton and Dr. Saeed Salem

    Question was raised by Dr. Denton on current yield monitors
    - Very few on the market
    - Not uploadable
    - Weigh averages instead of yield

    Agr ImaGIS – Field Images –
    - Current data is restricted to cost. At this time free images are provided by the government approximately every 16 days depending on cloud cover.
    - Past field images are available

Actions –

Denton asked for previous years field data
>ACSC has said they can provide this for sugar beet farms.

Denton asked for previous years and current chemical usage information
>Not sure if farmers can/would provide data.

Action –
>Dr. Denton and Dr. Salem to compose a list of question to have companies collect before and during spring planting.

Bylaw topic 4 – Invite outside companies to meetings and or to join consortium.

>**Action 4 –** The question was raised on whether to invite outside companies that may be competitors to meetings and or to join consortium.

>**Vote –** Companies asked individually for their opinions or objections

>**Action 4 – No objections raised**

11:45 – 12:00   Fall/spring meeting
>Will include poster session, research proposals, company overview
>New members/visitors – Companies are encouraged to bring potential new members and visitors.
>RDO Equipment volunteered to host the spring meeting in May of 2011.

12:00 – 1:00   Lunch/Dinner/Informal discussions

Informal discussion
>Question – On data collection where does the data point start for each truck loads?
>Answer – Data is registered from end of truck load or at the point the truck pulls away to the end of the next truck load.

Podium

Nick Arends, American Crystal Sugar Corporation, Ag Strategy Development Manager

Brian Ingulsrud, American Crystal Sugar Corporation, VP Administration

Dean Knudson, NDSU, Associate Prof CS Dept.

Brian Slator, NDSU, Head of CS Dept.

Adrian Kallis, Phx, Bus Systems Manager

Paul Nystuen, Phx, Adv Tech Manager

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Anne Denton, NDSU, Associate Prof CS Dept.

Stephanie Sculthorp, NDSU, CS Admn Sec

Lanny Faleide, Agr ImaGIS Technologies, President

Ron Ellingson, Agr ImaGIS Technologies, Research and Development