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Membership
Paul Reisch, ARA

Social
Jeff Barker

East River Breakfast
Barb Hegerfeld

West River Breakfast
Norm Edwards, ARA

Education
Scott Heimes

SDSU Relationships – Reisch
Career Days – Jay Knappe
Curriculum – Gatzke / Janssen
Network Event
– Brian Gatzke, ARA
Scholarship - Jay Knappe
Student Involvement- Jesse Ball

Assessors Conference
Ryon Rypkema

Education Foundation Auction
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Government Relations
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Appraisal Review & Ethics
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Mentor
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Nominating Committee
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Communication
Paul Reisch, ARA
Newsletter – Paul Reisch
Website – Adam Nelson



SOUTH DAKOTA CHAPTER

5 / 2015

Enhancing Our Members' Ability to Succeed in Their Rural & Agriculturally Related Professions!

DATES TO REMEMBER!

June 3-5 – South Dakota Professionals Range Camp - Sturgis
June 4 – Chapter Board Meeting – Sioux Falls - Rabo Agrifinance Office
June 4 – SDAAO Conference Banquet – Yankton
June 5 -- East River Breakfast Meeting- 9 A.M. - Sioux Falls Roll'N Pin
July 9 - West River Breakfast Meeting
July 19-23 - ASFMRA Summer Education Week – Omaha, NE
July 30 - East River Breakfast Meeting in conjunction with Hefty Field Days
September 10 - West River Breakfast Meeting
September 14-18 - Leadership Institute – Washington, DC
September 18 - East River Breakfast Meeting
September 23 – Ag Bio Scholarship Banquet - Brookings
October 2 - West River Breakfast Meeting – Rapid City
October 2 - Chapter Board Meeting – Rapid City – FCS America Office
October 26- 31 – 86th ASFMRA Annual Meeting – San Antonio, TX
November 12 - West River Breakfast Meeting – Rapid City
November 20 - East River Breakfast Meeting
January 28-29–Winter Education & Joint Meeting W/PAASD - Chamberlain

CHAPTER MEMBER ANNIVERSARIES

Member	Join Date	Years
Terry Longtin	6-01-1990	25
Joe Lutter	6-01-2007	8
Jeff Barker	6-27-2007	8
Travis Shaykett	6-29-2011	4
Amanda Leighton	6-27-2013	2
Jason Vaith	6-14-2013	2
Seth Van Duyn	6-27-2014	1

Thank you for your support!!

Editor Note: Received word just before publication that there is still an opening for a farm manager to attend Leadership Institute. If interested, e-mail Eric Lindberg (ELindberg@asfmra.org).

www.asfmra-sd.com

PRESIDENT'S MESSAGE

What a difference 10 days can make in the outlook for SD agriculture! We went from drought to near flooding in some areas in nearly one week. Eastern SD producers are now concerned with too much water and talking about reduced yields and being unable to even plant! As I write this, occasional snowflakes are falling in NESD. Freeze warnings are out for much of the area and it is to be cold all week.

The SDSU meeting in Brookings was a success. Along with exceptional presentations, we had a valuable opportunity to meet and socialize with fellow members. As I've said before, our Chapter thrives by our volunteers, education and socializing opportunities. I would like to thank Barb Hegerfeld, Brian Gatzke, Jay Knuppe, Paul Sickler, Paul Reisch, Jack Davis and Larry Janssen for the excellent teamwork in making this another exceptional event!

The land market in my neck of the South Dakota woods is very slow. I've verified a few new cash rent contracts for cropland and they are in line with what I considered to be "typical" last year. Not much downward pressure yet. However, I have not heard any of the coffee shop talk about those sky high rents that were gossip in the past few years. The market feels like it is in a coast mode for cropland in eastern SD.

In closing, please remember to honor our fallen veterans this Memorial Day. Take time to show your patriotism while enjoying the time with your family and friends

The chapter board will have their spring meeting in Sioux Falls on June 4th. Let me know of any issues or topics of concern you feel should be discussed by the board.

Craig Sommers craig.sommers@fcsamerica.com

RANDOM ACTS OF KINDNESS

Contributed by Prairie Beacon reader Helena Townsend of Willow Lake

"Random acts of kindness are those sweet or lovely things we do for no reason except that momentarily, the best of our humanity has sprung into full bloom." --Daphne Rose Kingma

- Plow snow out of your neighbor's driveway.
- Bring a cup of hot chocolate to the snow plow driver clearing off your street after a big snow.
- Invite someone for coffee or lunch.
- Email or call people with a word of encouragement when you know they are struggling.
- Surprise college kids with a little extra spending money.
- Offer to help some of the older residents in your neighborhood.
- Send a note of thanks to someone whose work goes unnoticed.
- Deliver a rose to the person at the drive-up teller or drive-up fast food restaurant.
- Leave a large tip to a waitress who didn't deserve a tip.
- Send a gift or flowers to someone anonymously.
- Take a meal to someone who doesn't get out.
- Thank someone who has made a difference in your life.
- Offer to write cards or notes to someone in need.
- Pay for someone else's dinner anonymously who is eating at the same restaurant as you.
- Let someone in front of you at the checkout line.
- Let your imagination go wild with ideas!

SDSU NETWORK EVENT UAV-DRONE PROGRAM

Thirty one individuals gathered on May 8th at McCrory Garden for the purpose of fellowship, networking, and building relationships between the SD Chapter and South Dakota State University.

Those present from SDSU & Brookings Community included:

- Ag-Bio College - Dean Barry Dunn, Associate Dean Don Marshall
- Economics - Nicole Klein
- Geography: Department Head George White, Bruce Millet, Bryon Noel
- Plant Science – Doug Malo
- SDSU Foundation - Mike Barber
- Brookings Community - Arend Schuurman, Brookings Aeronautics Club, Joshua Mann, Assistant Environmental and Health & Safety Office, Philip Tiedmann, City of Brookings Airport Manager

Members Attending:

- Academic Members – Jack Davis, Larry Janssen, Jerry Warmann
- Farm Managers – Megan Hammond, Jackson Hegerfeld, Tom Jass, Michael Norgaard, Paul Sickler, Jorge Vicuna
- Lending Services – Jeff Barker, Barb Hegerfeld, Paul Reisch, Craig Sommers, Kevin Ulvestad
- Fee Appraisers – Jim Dunlap, Brian Gatzke, Allan Husby, Travis Shaykett
- Affiliate Member – Ron Dunker
- Student Member - Ridge Sandal



President Elect Craig Sommers welcomed and thanked attendees for coming. Craig also recognized Monsanto for their sponsorship of the event.

Ronald Dunker, Monsanto Farm Manager/Account Manager, introduced himself to the group. Ron stated he was committed to working with the farm managers in our chapter and shared this mission statement...

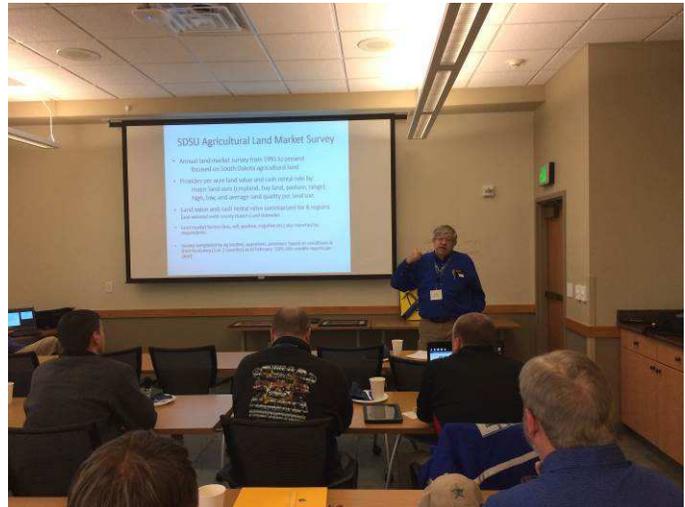
”Be the premier trusted partner of farm managers on current and future managed acres.”

Continued

NETWORK EVENT CONTINUED

Larry Janssen provided a preview of the 2015 Ag Land market Survey to be published later this spring. This marks the 25th year of the survey and was the first year showing any decline in values.

The survey results are a tale of two agricultural economies...cattle versus grains. Pasture continues to increase, especially in western SD with cropland showing declines in eastern SD. Regions varied widely with 1% to 10% declines in eastern SD, stable to 12% increases in central SD, and large 45% to 55% increases in western SD.



SDSU Network Event Chair Brian Gatzke then introduced Arend Schuurman of the Brookings Aeronautics Club, an avid hobbyist and builder of drones.

Arend presented an interesting program sharing lots of information including how drones can get that bird's eye view of precision agriculture.

What is a Drone? – Unmanned aerial vehicles (UAVS), also known as **drones**, are aircraft either controlled by 'pilots' from the ground or increasingly, autonomously following a pre-programmed mission.

What do I need to learn to fly a Drone?

- It helps to have a basic understanding of how gravity works. It is a simple rule, gravity always wins. We haven't left one up there yet.
- Start small and affordable.
- A simulator helps.
- Flying will take practice. There is going to be no substitute for it. The more hours you can practice the better you will be come.
- Learn to fly in various weather conditions. In this part of the world, wind is a normal part of what we have. You will have to learn to fly in the wind if you want to maximize the days you are in the air.
- All drones do come with an expiration date. If you are going to fly them, try not to fall in love with them.

Continued

NETWORK EVENT CONTINUED

Can I use a Drone for my Business?

- The short answer is NO.
- Currently, the Federal Aviation Administration (FAA) prohibits the use of UAVs for commercial purposes unless the user applies for and receives a waiver from the FAA.
- What do I do?
- You could apply for a waiver known as a Section 333 exemption.
- The waiver is a stop-gap measure for the commercial drone industry to use until the FAA's proposed rules become final.
- If granted, the waiver provides a limited-use permit to the applicant. Many of the waivers that have been granted have come with many restrictions on the use of the machine. Potential applicants are advised that obtaining the Section 333 waiver does not entitle the permit holder to unlimited use of UAV technology.
- There are a couple of points worth noting. If you were to get a Section 333 exemption there is one point to remember. As of now, all of the exemptions granted REQUIRE the pilot in command to hold a minimum of a sport class pilot license or higher. So, to use an exemption you must be a pilot for full scale aircraft. An observer is also needed.
- Current rules state or actually will state that the flight will be conducted Line of Sight. LOS. What does this mean?

What kinds of Drones are there? Arend had several UAV models with him.



Continued

NETWORK EVENT CONTINUED

What can Drones cost?

- The DJI F450 can be built for anywhere from \$1000 to \$1500.
- What you already have determines your final cost.
- You will want a battery charger that can charge the LiPo chemistry batteries. You will most likely want multiple batteries. You may want a few spare parts such as props, a motor, an ESC and an arm or two.
- The DJI F550 is similar to the F450 but will come with a higher cost. Usually around 200-300 dollars more.
- Advantage of the F550 is that it can carry more payload. This means a bigger camera and a larger battery. It can also handle a little more wind as it is a little larger and heavier.
- Uses the same parts as the F450. In fact aside from the center frame, all the parts are interchangeable.
- Advantage, parts are cheaper and you fix what is broken without replacing large parts.
- I don't want to build, what then?
- Buy a RTF (Ready to Fly) unit.
- DJI makes the Phantom. Multiple options including a gimbal and a camera. Can interface with your iPad or iPhone for the video link on Wi-Fi.
- 3D Robotics makes the Iris and will soon release the Solo. There are more companies coming out every day.
- Horizon Hobbies has the Blade 350 QX line. Units start at around 500 RTF. You still need your own radio.
- How do I choose? Well, what it comes down to is do you want to buy a Ford, Chevy or a Dodge?
- In all honesty, as fast as the technology is changing and with all the current models, there is really no right or wrong answer. If it works for your application, then it is the right one for you.

Continued

NETWORK EVENT CONTINUED

What are some examples of what Drones can do?

Roof line inspection (left photo below) is one example. How easy is it to see the roof or the leg structure of this elevator from the ground? A UAV or a drone allows that view from a safer location.



Take a panorama of agricultural land (right photo above). This could be used to see the lay of the land and to compare it to existing maps. It can also see something you might not see if it was over a hill.

Look at a very large flat roof. In the photo below left, it is obvious where the roof has been replaced and is new. Is the building owner being truthful when they said that there was work done on the roof?

Contrast to image from Google Earth in photo below right. Has anything changed since the fly over and if so, what has changed?



Arend also discussed and showed demo video of how the “SpotFire One” is being used by the Brookings Fire Department in enhancing their service to the community including searching for a lost child.

Continued

NETWORK EVENT CONTINUED

What could possibly go wrong? Drones can fly away. Yes, they have made the news for flying away. This is not a new issue. RC craft have been flying away since the start of RC flying. If it does fly away, one needs to consider what issues you could face such as liability concerns? What will it cost?

Arend shared that FAA has issued proposed rules for UAV-Drone use. See article next page for an overview of these rules. Arend indicated it could be several months to a couple of years for final rules to be adopted. He encouraged people to get started now as a hobbyist so that you are safe and knowledgeable when regulations allow you to use in your business.

The SD chapter members thank SDSU Network Committee Chair Brian Gatzke for spearheading the SDSU Network Event as well as committee members Jay Knuppe (securing location), Paul Sickler (food arrangements), Barb Hegerfeld (registration, name tags, welcome), and Jack Davis (welcome attendees).

MEMBER PROFILE IS RON DUNKER

Describe your experience and education related to the property professional field (appraisal, farm management, consulting, academic relation).

22 Years in Ag Industry, BS in Plant Biology, Farm Management Representative for Monsanto

Describe what has led you to becoming a chapter member of the South Dakota ASFMRA and why you remain a member, if a member for a number of years.

Wanted to learn about the organization, network with FM/Appraisers and learn more about farm management and appraiser industry.

Describe personal background items that would be of interest to fellow chapter members (e.g. family, ethnic heritage, other communities lived, other jobs / careers, main hobbies or interests).

Married for 21 years to Jennifer have 2 sons Drake and Peak.
Born and raised on farm in SE Iowa. Had too many jobs to list all Ag related growing up! Hobbies are son's sports, coaching, riding dirt bikes, fishing and hunting.

Describe a few memorable or unique experiences in your life.

Most memorable-is marrying my wife and the birth of our two sons.

Most unique- is growing up on a farm as a kid 70's and 80's our farm was what you would call "self-sustainable" we milked our own cow (butter, cream, whole milk no pasteurization needed!) we raised our own pork, beef, chicken, had our own garden. We did not go to town very often and when I tell my wife and boys how I grew up they look at me strange!



OVERVIEW OF SMALL UAS NOTICE OF PROPOSED RULEMAKING – SUMMARY OF MAJOR PROVISIONS OF PROPOSED PART 107

Operational Limitations

- Unmanned aircraft must weigh less than 55 lbs. (25 kg).
- Visual line-of-sight (VLOS) only; the unmanned aircraft must remain within VLOS of the operator or visual observer.
- At all times, the small unmanned aircraft must remain close enough to the operator for the operator to be capable of seeing the aircraft with vision unaided by any device other than corrective lenses.
- Small unmanned aircraft may not operate over any persons not directly involved in the operation.
- Daylight-only operations (official sunrise to official sunset, local time).
- Must yield right of way to other aircraft, manned or unmanned.
- May use visual observer (VO) but not required.
- First-person view camera cannot satisfy “see-and-avoid” requirement but can be used as long as requirement is satisfied in other ways.
- Maximum airspeed of 100 mph (87 knots).
- Maximum altitude of 500 feet above ground level.
- Minimum weather visibility of 3 miles from control station.
- No operations are allowed in Class A (18,000 feet & above) airspace.
- Operations in Class B, C, D and E airspace are allowed with the required ATC permission.
- Operations in Class G airspace are allowed without ATC permission.
- No person may act as an operator or VO for more than one unmanned aircraft operation at one time.
- No careless or reckless operations.
- Requires preflight inspection by the operator.
- A person may not operate a small unmanned aircraft if he or she knows or has reason to know of any physical or mental condition that would interfere with the safe operation of a small UAS.
- Proposes a microUAS option that would allow operations in Class G airspace, over people not involved in the operation, provided the operator certifies he or she has the requisite aeronautical knowledge to perform the operation.

Operator Certification and Responsibilities

- Pilots of a small UAS would be considered “operators”.
- Operators would be required to:
 - Pass an initial aeronautical knowledge test at an FAA-approved knowledge testing center.
 - Be vetted by the Transportation Security Administration.
 - Obtain an unmanned aircraft operator certificate with a small UAS rating (like existing pilot airman certificates, never expires).
 - Pass a recurrent aeronautical knowledge test every 24 months.
 - Be at least 17 years old.
 - Make available to the FAA, upon request, the small UAS for inspection or testing, and any associated documents/records required to be kept under the proposed rule.
 - Report an accident to the FAA within 10 days of any operation that results in injury or property damage.
 - Conduct a preflight inspection, to include specific aircraft and control station systems checks, to ensure the small UAS is safe for operation.

Aircraft Requirements

- FAA airworthiness certification not required. However, operator must maintain a small UAS in condition for safe operation and prior to flight must inspect the UAS to ensure that it is in a condition for safe operation. Aircraft Registration required (same requirements that apply to all other aircraft).
- Aircraft markings required (same requirements that apply to all other aircraft). If aircraft is too small to display markings in standard size, then the aircraft simply needs to display markings in the largest practicable manner.

Model Aircraft

- Proposed rule would not apply to model aircraft that satisfy all of the criteria specified in Section 336 of Public Law 112-95.
- The proposed rule would codify the FAA’s enforcement authority in part 101 by prohibiting model aircraft operators from endangering the safety of the NAS.

WEST RIVER BREAKFAST NETWORKING

By Norm Edwards, ARA

It was a foggy day in Rapid City on May 14, but most everybody was glad to see the moisture and we had a friendly informative and worthwhile meeting attended by ten member of the profession at Marlin's grill. Members in attendance were Ron Ensz of Belle, Loy Matthes of Rapid City, Jerry Hulm of Rapid City, Russell Wyatt of Hot Springs, Perry Beguin of Spearfish, Dave Baker of Hermosa, and Norm Edwards of Spearfish as well as guests Mike Curran of Rapid City, J.W. Hammond from Gillette, and Jay Widdoss of Rapid City,



We had a conversation on recent sales including recreational land near Angostura, commercial development near Maverick Junction, and a feed store in Buffalo Gap. There also were several sales of irrigation land under project land with irrigation.

We also had a discussion on having a demo by Arend Schuurman and there seemed to be a general interest by all, and a few were real interested. We intend to pursue this more and set up a demo at a mutually convenient time.

We discussed the upcoming Range Camp at Rural Sturgis. In talking to SDSU coordinators, there are about a dozen signed up, but they anticipate a greater participation as the event draws closer. It looks that there is a good program with valuable information to be presented.

Ron Ensz gave a report on the Supervisory Appraisal Committee which still has difficult problems to research and work out. Everyone agreed that these problems are important to keep our profession desirable and economically attractive to new people.