

Advisory Committee Meeting

November 9, 2016

Cedar Falls, IA

The logo for the Iowa Waste Reduction Center (IWRRC) is displayed in a large, stylized, blue font with a slight shadow effect. The letters are bold and blocky, with the 'I' and 'W' being particularly prominent. The logo is positioned in the upper left portion of a photograph of a rural landscape.

Agenda

10:00 a.m.

Introductions

JIM OLSON

10:10 a.m.

Business and Community Service Program Highlights

RANDY PILKINGTON

10:30 a.m.

Guest Presentation – John Pappajohn Entrepreneurial Center

KATHERINE COTA

11:00 a.m.

IWRC Core Programs

JIM OLSON, JENNIFER WITTENBURG, RICK KLEIN

11:30 a.m.

Food Waste Reduction Projects

JENNIFER TRENT

12:00 p.m.

Lunch

1:00 p.m.

Iowa Green Brewery Certification

JOE BOLICK

1:30 p.m.

Food Waste Summit / VW Settlement

DAN NICKEY

2:00 p.m.

VirtualPaint – 3D Evaluation / Development

JEREMIAH TRELOAR

2:30 p.m.

Conclusions and Questions

JIM OLSON



- Bill Dotzler → IOWA SENATE
- Kristin Failor → NATIONAL FEDERATION OF INDEPENDENT BUSINESS
- Jeff Fiagle → IOWA DEPARTMENT OF NATURAL RESOURCES
- Glen Hulbert → DEERY BROTHERS COLLISION CENTER
- David Inyang → IOWA STATE UNIVERSITY
- David Jackson → UNIVERSITY OF IOWA
- Jan Loyson → CITIZEN REPRESENTATIVE
- Randy Pilkington → UNIVERSITY OF NORTHERN IOWA
- Matt Rasmussen → IOWA ECONOMIC DEVELOPMENT AUTHORITY
- Walt Rogers → IOWA HOUSE OF REPRESENTATIVES
- Lisa Shimkat → IOWA SMALL BUSINESS DEVELOPMENT CENTER

Annual Report 2016

**Economic Development &
Regents Innovation Fund**



**Business &
CommUNITY
Services**

University of Northern Iowa

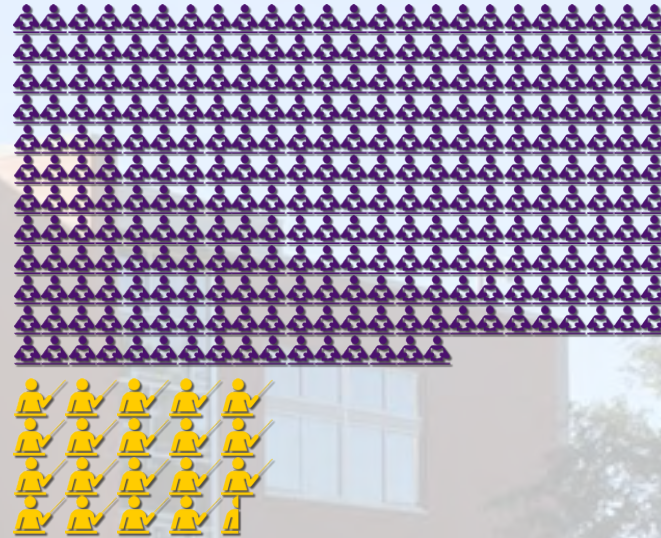
Presented by:

Randy Pilkington – Executive Director, Business & Community Services

A Good Investment for Iowa



**Services provided in
all 99 counties**



Nearly **2,800**
students and
195 faculty
members in
service delivery

3,120
unique clients served
this year

Each **\$1** provided by
the state is leveraged with **\$5** in
private grants, fees or federal funding

Business & CommUNITY Services

University of Northern Iowa

- Comprised of 13 programs



Entrepreneurs & small
businesses



Economic developers &
communities



Environmental professionals &
sustainability advocates

Entrepreneurship & Business Development

- IASourceLink.com
 - 22,000 unique users
 - Business Concierge - 1,300+
- Dream Big Grow Here - 119
- Advance Iowa
 - Peer Roundtables
 - Succession planning

5 REASONS WHY YOUR BUSINESS SHOULD HAVE A SUCCESSION PLAN



Avoid Conflict

Setting up a plan for future decision making can stop future conflict before it starts! Make sure your successors know what your expectations are.



You Get to Train

Picking your successor early allows you to train them your way, and helps you know you've left your business in good hands.



Smooth Transition

Having a plan with definitive steps can help when it comes to transitioning out of complete control of your business.



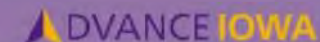
You Can't Always Sell

Selling isn't always the easy way out! Finding a buyer that fits your time frame and price is rare. Having a plan gets rid of that pressure!



Expect the Unexpected

In the case of an emergency, don't leave your business in turmoil. Have a plan that ensures its success no matter the circumstances.



Interested in setting up a succession plan for your business? Visit advanceiowa.com/succession-planning/ or call (319) 273-4322 to find out more.

Entrepreneurship & Incubation

27%
increase

14 New Companies
in Incubators

75
Overall
Graduates
into
Regional
Economy



12%
increase

192 Jobs Created in 2016

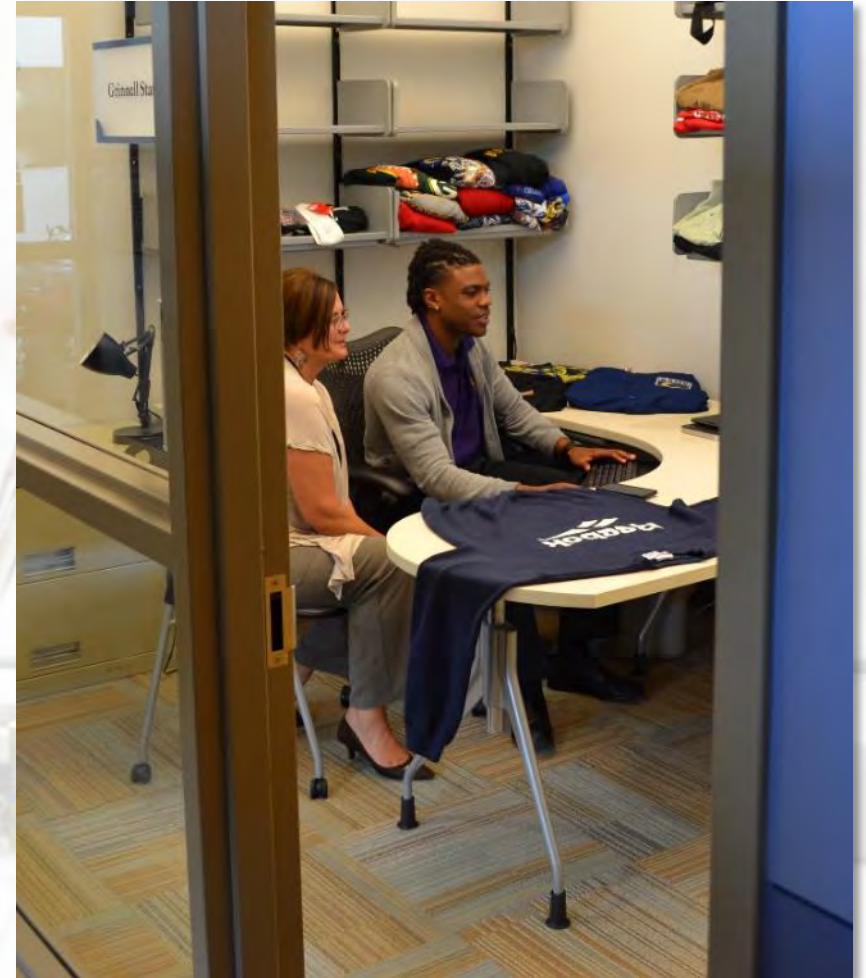


5% increase

45 Student Business



Owners Assisted in 2016



Additive Manufacturing

- 3D Sand Mold Printer Research, Development & Service
- 80% Reduction in Cost
- Military Projects – Iowa Companies
- Next Generation of 3D Sand Printers
- Strategic Infrastructure Fund Grant
- Design Lab with Hawkeye Community College



Local & Regional Development

- 700 Communities Served
- Workforce – Iowa Workforce Development
- BEST of Iowa
- Cultivation Corridor
- IEDA – Location One Information System (LOIS) Update



Local & Regional Development

Regional Entrepreneurship Project

- University Center designation from the federal Economic Development Administration
- 5 Regions – Recently added 6-county Cedar Valley region
- Regional Entrepreneurship Plan – Council Bluffs



CENTER FOR
**BUSINESS GROWTH
AND INNOVATION**

UNIVERSITY OF NORTHERN IOWA



Institute for Decision Making | University of Northern Iowa

Environment & Sustainability

Iowa Waste Reduction Center

- Over 6,000 On-Site Environmental Compliance Audits in all 99 Counties
- 7 Environmental Certifications Developed
 - Over 3,000 DoD Painters Certified
 - Iowa Green Brewery Certification (Nov. 2016)
- Recognized Nationally as Food Waste Reduction Experts
 - Hosting National Conference in September 2017



Iowa Waste Reduction Center

IWRC

University of Northern Iowa

Recognition

- President's Honor Roll for Community Service
 - Economic Opportunity
- International Business Innovation Association (InBIA)
 - Student Entrepreneurship Program of the Year



www.bcs.uni.edu



Guest Presentation by:

Katherine Cota
ASSOCIATE DIRECTOR



Presented by:

Rick Klein
PROGRAM MANAGER

STAR4D Training

- U.S. Marine Corp Sites
 - Marine Corps Logistics Base Albany
 - Marine Corps Logistics Base Barstow
 - Camp Pendleton
 - Camp Lejeune
 - Blount Island Command
 - Marine Corps Base Hawaii
 - Marine Corps Base Okinawa, Japan

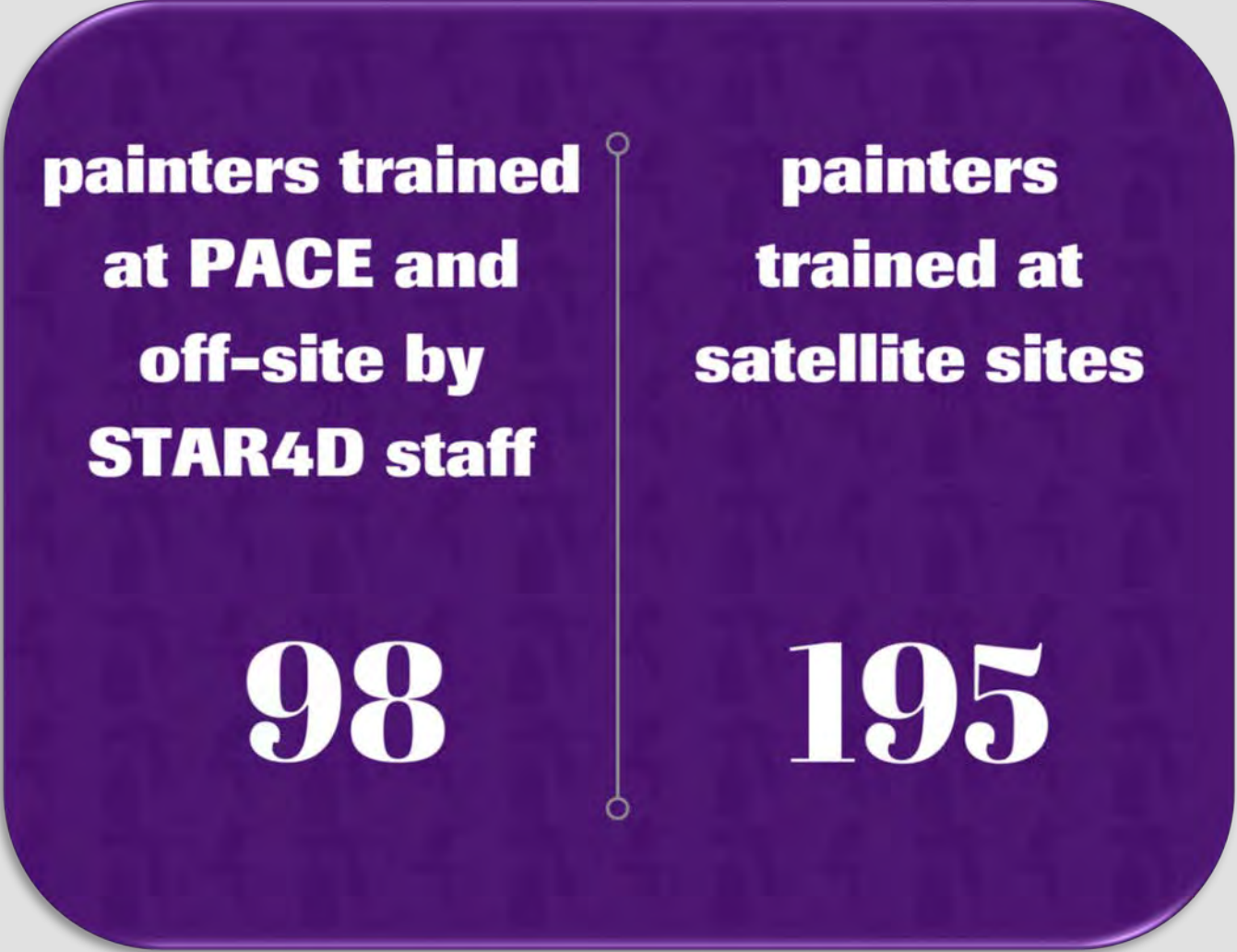


STAR4D Training

- Army Repair Facilities
 - Letterkenny Army Depot
 - Tobyhanna Army Depot
 - Corpus Christi Army Depot
 - Rock Island Arsenal
 - Fort Campbell
 - Fort Rucker
 - Army National Guard Paint Facilities



STAR4D Training



STAR4D Research



A photograph of an industrial facility, likely a waste treatment plant, featuring several large, light-colored smokestacks and a building with a corrugated metal roof. The sky is blue with some white clouds.

Iowa Air Emissions Assistance Program

Presented by:

Jennifer Wittenburg
PROGRAM MANAGER

Iowa Air Emission Assistance Program (IAEAP)

- Mandated by Section 507 of the Clean Air Act Amendments
- Free technical and environmental compliance assistance to Iowa small businesses (less than 100 employees)
- Funded by the Iowa DNR Air Quality Bureau



Iowa Air Emission Assistance Program (IAEAP)

- Services Provided (July 1, 2015 – June 30, 2016)

Assistance Type	Brief Assistance	Detailed Assistance
Site Visits	6	48
Construction Permits	48	16
Permit by Rule	5	3
Small Unit Exemption	4	7
MSEI	48	46
NESHAPs	56	1
Grain	26	1
Feed Mill	2	0
Other	22	9
Total	217	131

- FY16 Special Projects – Air Quality 101 Contractor Training



On-Site Reviews

Presented by:

Jim Olson
DIRECTOR

On-Site Reviews (OSR)



- Created by 1997 Groundwater Protection Act
- Funded by \$0.25 per ton landfill tipping fee surcharge
- Free and confidential compliance and pollution prevention assistance to Iowa small businesses
- Services offered include site visits, brief assistance, comprehensive website (www.iwrc.org) and special projects

On-Site Reviews (OSR)

- Areas of Assistance
 - Solid and hazardous waste
 - Used oil
 - Wastewater
 - Storm water
 - Universal wastes
 - Etc.



On-Site Reviews (OSR)

- 14 full-time staff
- 5 students





Food Waste Reduction Projects

Presented by:

**Jennifer Trent
ENVIRONMENTAL SPECIALIST**

Rural Iowa Food Waste Reduction Project

- Food waste prevention and reduction project in rural Iowa
 - October 1, 2015 – September 30, 2016
- Services for ICI entities included
 - Food waste audits
 - Waste sorts
 - Search of local area for reduction opportunities
 - Final report sent to each participant



ICI Sector

- Communities served

- Arnolds Park
- Bellevue
- Bloomfield x2
- Cresco
- Elkader
- Fayette
- Glidden
- Hampton
- Harlan
- Jefferson
- Lake View
- Montezuma
- New Hampton
- Oelwein
- Rock Valley
- Tama
- Wapello

- ICI sectors served

- K-12 school districts – 12 districts, 29 schools
- Hospitals/medical centers – 3
- Nursing homes – 1
- Correctional facilities – 1
- Restaurants - 1





Waste Sort Results at K-12 School Districts

School District	Students served per day	Plate food waste generated daily	Plate food waste generated yearly	Plate food waste generated per student per meal	Food waste generated per student per year
Glidden Ralston	270	55.6 lbs./day	10,008 lbs. or 5 tons	0.2 lbs./meal	37 lbs./year
Howard Winneshiek	1,200	488.6 lbs./day	87,948 lbs. or 44 tons	0.4 lbs./meal	73 lbs./year
Oelwein	1,126	311.6 lbs./day	56,088 lbs. or 28 tons	0.3 lbs./meal	50 lbs./year
Marquette Catholic	245	132.8 lbs./day	23,904 lbs. or 12 tons	0.5 lbs./meal	98 lbs./year
Harlan	1380	268 lbs./day	48,240 lbs. or 24 tons	0.2 lbs./meal	35 lbs./year
South Tama	1075	856 lbs./day	154,080 lbs. or 77 tons	0.8 lbs./meal	143 lbs./year
Okoboji Middle	256	155.2 lbs./day	27,936 lbs. or 14 tons	0.6 lbs./meal	109 lbs./year

Rural Food Waste Reduction

- Each student generates **0.4 pounds** of food waste during lunch
- Each student generates **74 pounds** of food waste per school year
- 2012-2013 school year over **39 million pounds** of food waste from private and public K-12 schools ended up in landfills across Iowa



New Grant Funded Project 2016-2017

- Food Waste Reduction Assistance Project for Iowa Rural Communities
 - Funded by U.S. Department of Agriculture Rural Utilities Service grant
 - Objectives
 - Reduce and prevent food waste in four rural Iowa communities
 - Community-wide effort
 - Assistance to be Provided
 - On-site food waste audits for ICI food waste generators
 - *Food: Too Good to Waste* implementation for residential sector
 - Develop educational materials to support the project goals and objectives
 - Expand IWRC's existing food waste webpages to include educational materials



**And with that...
Let's eat!**





Iowa Green Brewery Certification

Presented by:

Joe Bolick

Communications and Public Relations Manager for IWRC/BCS

Iowa Green Brewery Certification



Iowa Green Brewery Certification



Presented by:

Dan Nickey
ASSOCIATE DIRECTOR



Summit

MIDWEST FOOD RECOVERY SUMMIT

September 6-8, 2017 • Des Moines Marriott Downtown

VW Settlement





Licensed Products & VirtualPaint

Presented by:

Jeremiah Treloar
PROGRAM MANAGER

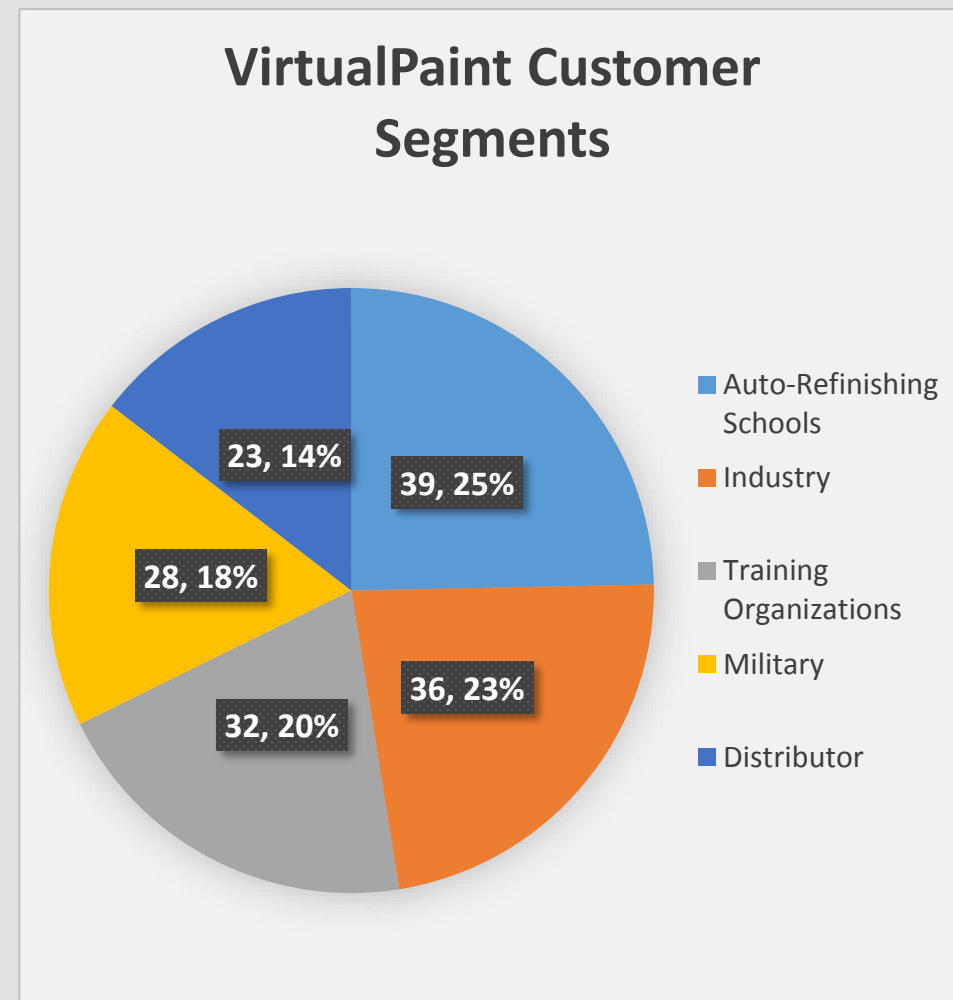
Licensed Products

- Manages IWRC's painter training products
 - Self supporting operations
 - Research and development of educational products
 - VirtualPaint training system
 - Train-the-trainer program
 - Spray-It-Right e-learning course
 - Explore opportunities for new products
 - Supports the IWRC's pollution prevention initiative
 - Advance UNI's Intellectual Property



12 Years of VirtualPaint

- 16 software development projects
- 160 VirtualPaint systems sold
 - 19 Iowa clients
 - 8 / 11 industrial sales to wood furniture clients
- 2 distributors (EMEA, Australia)
 - Purchased in 14 countries
- 90% customers upgraded system in the previous three years



2016 Activities

- 25 VirtualPaint sales
 - 5 systems sold to Mercedes plants in Europe
- 15 customer hardware upgrades
- 14 industrial painter training classes
- 6 train-the-trainer clients
- 3 magazine publications
- VP3D R&D project - Phase 1



VP3D Development Project

- What is 3D virtual reality?
 - [Goldman Virtual Reality](#)
- Why develop VirtualPaint 3D?
 - Create new opportunities
 - Advanced VR hardware
 - Customer demand
 - Software development partner
- How to develop VirtualPaint 3D
 - Software development partners
 - Industry partners

- VP3D Phase 1 Objectives
 - Integrate HTC VIVE Hardware
 - Develop 3D Spray Model
 - Integrate 3D Virtual Environment
 - Spray a 3D part



2017 VirtualPaint Priorities



1. VP Sales / Customer Support
2. VP3D Development Project
3. Explore Partnership Opportunities
4. Enhance the Train-the-Trainer Program
5. Develop E-Learning Programs
6. Painter Training Classes

**Thank you for attending the 2016
IWRC Advisory Committee Meeting!**

IWRC

