Learn From the Leaders: Grand Valley State University

June 19, 2018

HEALTHY SCHOOLS
CAMPAIGN

Logistics

- Webinar will run approximately one hour.
- A recording of the webinar will be available online.
- Please take two minutes to complete the survey at the end.

Q&A Session

- Q&A will be held during the final 15 minutes.
- Ask questions through the “chat” in the lower right side of your screen.

About Healthy Schools Campaign

HEALTHY SCHOOLS
CAMPAIGN

About Green Clean Schools

HEALTHY SCHOOLS CAMPAIGN

What is Green Cleaning? Our 5 Step Approach

HEALTHY SCHOOLS
CAMPAIGN

Today's Panelists

- Ed Wierzbicki, Facilities Supervisor at Grand Valley State University
- Renae Hesselink, Vice President of Sustainability at Nichols
- Mike Steers, Nichols Equipment Sales

June 19, 2018

GVSU
Facilities Services

Custodial Department

Presented By Ed Wierzbicki

Leadership

- Associate Vice President – Tim Thimmesch
- Department Supervisors
  - Janet Aubil – Operations Supervisor
  - Ed Wierzbicki - Facilities Supervisor
  - Raven McClinon – Assistant Supervisor
  - Cathy Headley – Facilities Supervisor

The hard working men and women who dedicate themselves to a successful cleaning operation

- Kevin Alderink
- Dan Barrigear
- Gene Bohner
- Diana Cable
- Glenn Coryell
- Terry Daniels
- Julio Duran
- Maria Gonzalez
- Steve Hutchens
- Kevin Johnson
- Wayne Kooistra
- Michelle Lintjer
- Scott Mahoney
- Randall McMurray
- Mark Muilenberg
- Kelly O'Mara
- Thad Robinson
- Geia Rosema
- David Sims
- Dan Spangler
- Jeff Tolar
- Robert VanDaam
- Stephanie Vasquez
- Karen Warner
- Gabriella Wyllys
- Charity Anderson
- Robert Bentley
- Martha Bravo
- Harold Channels
- Maurice Costello
- Patty Derusha
- Dave Edwards
- Theresa Gooden
- Daniel Hylen
- Charles Kile
- John Lachmann
- Diane Lipski
- Darryl Malone
- Mark Minnema
- Penny Myers
- Margaret Patterson
- Jessica Rodriguez
- Jeff Short
- Leonard Smedley
- Sara Sullivan
- Robert Torres
- Dan VanFarowe
- Jonathan Verstrate
- Marc Westrate
- Emily Zhao
- Jared Bachmeier
- Carl Berg
- Kimberly Bruce
- Brennan Clendenning
- Chad Covington
- Jeff DeWitt
- Ron Edwards
- Lynn Grunow
- Jim Jakubowski
- Luann Klinkers
- David LeMieux
- Candy Lockhart
- Andrew McCloskey
- Halima Mohamed
- Terry Norris
- James Penive
- Sandra Rodriguez
- Ashley Shoulders
- Amanda Smith
- Tiashika Taylor
- Tyler Treman
- John Vann
- Issabell Waite
- David Williams
- Ben Baine
- Allen Bialk
- Eric Bufford
- Camerino Cornejo
- Michael Dahlstrom
- Marvin Dupey
- Sandra Ellen
- Scott Hale
- Daren Jenison
- John Kommer
- David Lintjer
- Jeff Lynema
- Robert McHugh
- Casey Moomey
- Asare Offeh
- Marc Reigler
- Teri Roelofs
- Tom Shuck
- Mark Sokolowski
- Darien Thornton
- Ratu Tuinasaqalau
- Tamara Vargo
- Darrell Waller
- Mark Wilson

Current Custodial Staff 2018

Martha Bravo and Darien Thornton
@Mary Idema Pew Library

Mary Idema Pew Library – Certified LEED Platinum

Facts

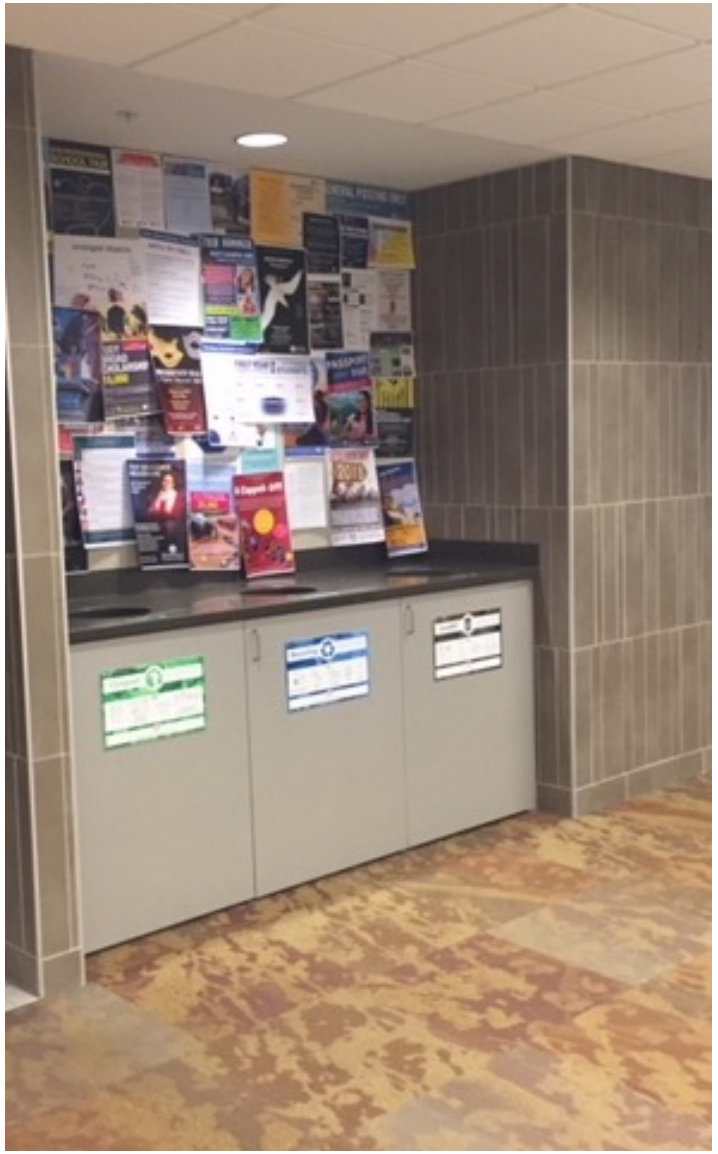
- 106 Custodians maintain approximately 4,000,000 square feet of space on campus.
- 1.7 Million square feet is LEED Certified – these spaces drive our green cleaning housekeeping measures throughout campus.
- Provide setup and teardown services to athletic events, camps and conferences as well as student life events throughout campus.
- Facilitate “Project Donation” at the end of each academic year
- Other services provided – snow removal at every building entrance, trash/recycling/compost collection, light bulb changes, small furniture moving.

19, 2018

GVSU's Green Cleaning Program History

- 14 years ago the custodial department aligns with the Universities strategic value of "modeling sustainability in our campus operations" 7th on the list of the Universities core values.
- Initiated by Steve Leeser – Operations Supervisor and Gloria Myaard – Facilities Services Supervisor
- Adapted purchasing policies and green housekeeping procedures to compliment the LEED certified buildings.
- Sustainability Office @ GVSU established 13 years ago
- 2007 RecycleMania participant – 1st year
- 2014 Green Housekeeping Policy formally established
- 2018 Grand Award Winner – American Schools and Universities

GRAND VALLEY STATE UNIVERSITY



Green Cleaning Initiatives

- RecycleMania Participation
- Air Quality improvements - HEPA Filtration vacuums, elimination of propane burnishing
- Water Minimization– microfiber technology, low water use and chemical free scrubbers
- Energy Saving Measures – strategic staff scheduling during daylight hours
- Continuing Education – APPA workshops, ISSA tradeshows, vendor partnered training

Common images surrounding our custodial operations

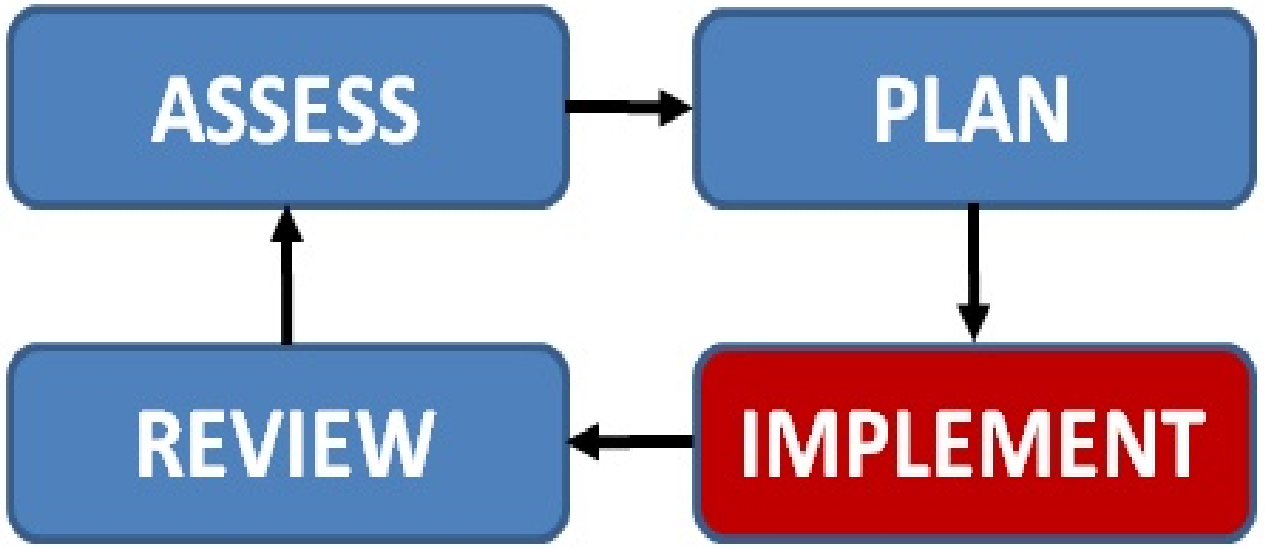
Lean Principles – 5S Methodology

- 5S is a workplace organization method
- Developed in Japan as a a technique that enabled JIT (Just in Time)manufacturing.
- Now being applied in the healthcare, education and government environments

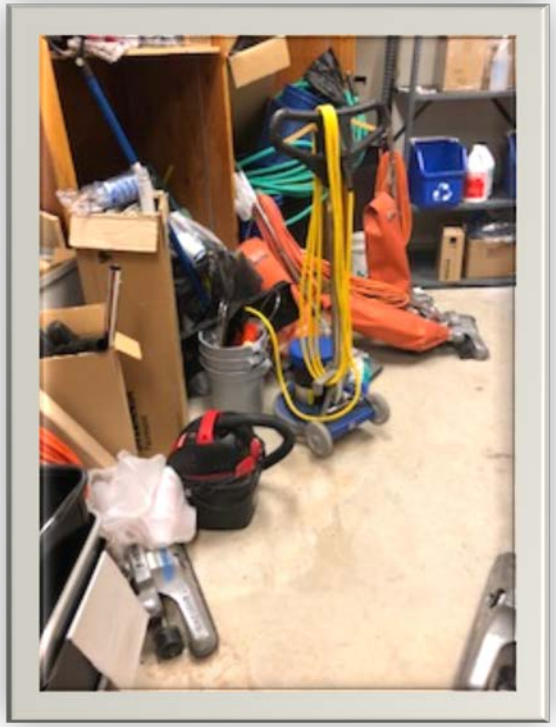
Why 5S

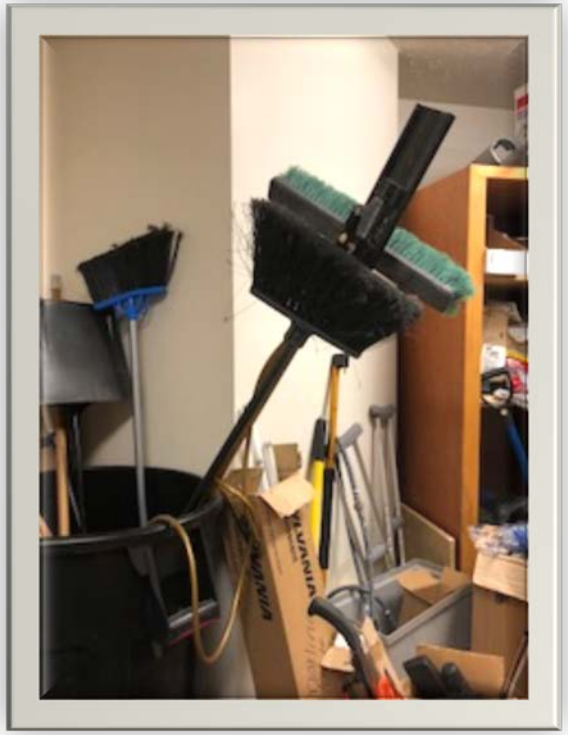
- Make work easier
- Make it easy to find cleaning materials and equipment
- Keep closets clean and organized
- Initiate structure
- Empowerment – Sense of pride and ownership

5S Management



Before





After

Floor Care Lean Principles

- Introduction of square scrub technology with random orbital motion and surface prep pads
- Reduction of chemical stripper
- Reduction of water use
- Elimination of propane burnisher use (IAQ improvements)
- Safe work environment
- Better looking VCT for longer periods.

GRAND VALLEY STATE UNIVERSITY

Challenges and Obstacles

5S Methodology

- Logistical Challenge
- Regular oversight
- Ownership

Floor Care Program

- Traditional methods
- Technology
- Little resistance – created a financial challenge

Results

5S Methodology

- Identified duplication
- Improved response time
- Inventory management
- Better use of space

Floor Care

- Reduce Chemical usage
- Improvement in appearance
- Lower risk of injuries
- Higher production rates

Keys to Success

- Simplify the processes and procedures
- Keep innovating – go for it…
- Consider all facets of your program as areas that can be greener and more sustainable.

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Get Lean and Sustainable
The 5S Program
Reducing Waste

Lean – What Is It?

- A Lean organization is one that uses less of everything
- It is an on-going commitment
- In-depth and sustainable approach
- Set of principles, a common language
- Everyday approach to building flexibility

The Logic of Lean

- Understanding the source of the waste
- Focuses on the processes that create value
- Just as much about the people as the tools
- It becomes part of the culture

Why Is Lean So Special?

- Proven
- Makes Sense
- Accessible
- Inclusive of Everyone

Learning
Never Ends

Waste

If you see waste, you can get rid of it!

Eight Wastes - Motion

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Definition: Any movement that does not add value to your product or service

Eight Wastes - Inventory

Definition: Anything in excess of one-piece flow

Too much stuff

Eight Wastes - Transportation

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Definition: moving people, materials and information around the organization

Example:

Having people run to pick up things instead of planning better

Eight Wastes – Under-Utilized People

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Definition: not tapping into people's education, skills, experience, knowledge, creativity, etc.

Examples:

- Learning that one of your employees is a volunteer leader in an outside organization
- Not listening to ideas or suggestions from the value-adders on how to make improvements

Eight Wastes - Defects

Definition: Anything that needs to be scrapped, adjusted, reworked, etc.

Examples:

- You are not provided

with the complete information or accurate information

- You just fix things yourself
- Having to rework anything that was not done right the first time

5S The Foundation

Step 1 - Sort & Separate

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1. Sort
2. Dispose of those items that are no longer necessary, obsolete, or do not belong in the area using the red tag technique
   - Remember – "when in doubt, throw it out!"
   - Develop a system (box system – everything in a box and take out what you need, when you need it and at the end of 6 months, the rest is trashed)
   - Separate items remaining between those required on a daily basis and those needed on an irregular basis (3 categories: daily, weekly or "X-mas" items)
3. Find alternative storage locations

Step 2 – Scrub and Shine

Systematically clean equipment, tools and area

- Elevate all items to a standard level of cleanliness
- Eliminate or contain sources of dirt, dust, oil, scrap, and other foreign material
- Adopt cleaning as a form of equipment inspection
- Build a visual standard routine and integrate
- Supplies must be easily accessible

Scrub and Shine – What Happens?

- Sweeping, wiping, picking up and keeping things in order
- Part of the daily routine
- Cleanliness is closely related to attitude and quality
- Enhance quality, pride and safety

Don’t Let Your Tools Look Like This

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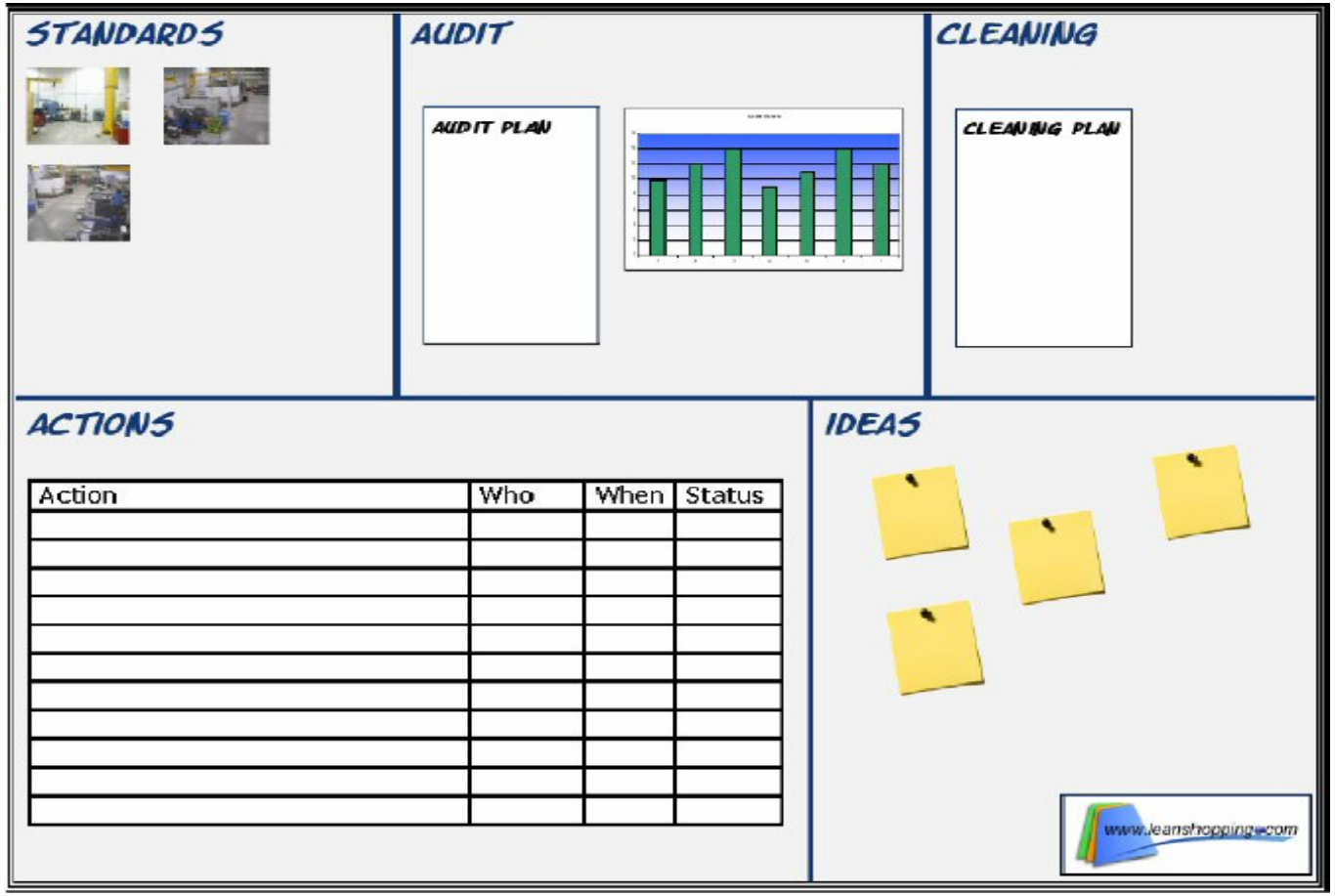
QUAT-64

Step 3 - Set

- Determine a home location for each item based on frequency of use
- Determine storage quantities
  - Minimize the number of items stored in work area (min/max)
- Set safe height and size limits
- Standardize names, color code, label, identify at a glance
- 5S Board – pictures say a thousand words
- Personal items – must have a home too.

5S Board Example



Step 4 – Standardize/Systemize

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- Objective – easy for anyone to find anything, anytime
- Organized so everyone easy easily return items used, give an address – even things that sit on the floor – carts, buckets, trash containers.
- Create a visual system (color code, signage, photos, document)
- Multiple Storage or work areas – set them up similarly

Step 5 – Sustain Discipline

- Goal = 100% adherence to standards
- Workplace becomes supervisor
- Reward adherence & strengthen 4 steps
  - Checklist/audit
  - 5-S Patrol
  - Visual System Support Team
  - Management Walks

Simple Audit

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Number	Question	Yes	No
1	Are all activities in the cleaning plan completed as planned?		
2	Are floorspace markings intact?		
3	Is the floor cleared and according to standards?		
4	Are tools placed in the right places?		
5	Are cleaning aids placed in their right places?		
6	Is the 5S board updated?		
7	Are all the items stored in the area relevant?		
8	Are all actions with passed deadline completed?		
9	Supplemental question		
	Score		**0**

Thank You!

Contact Information
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Orbital Technology

Orbital Technology

Disc / Rotary

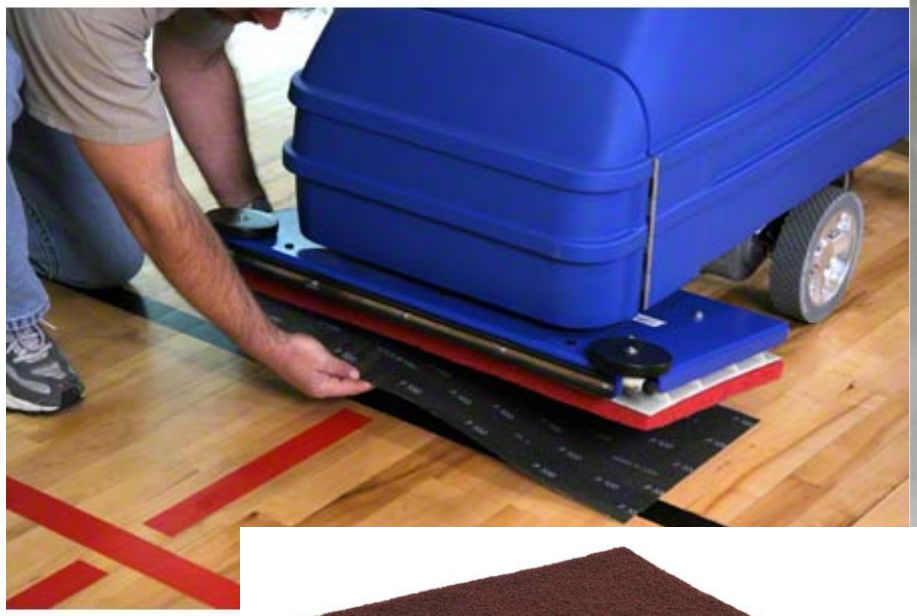
Orbital

- Disk or Rotary style floor scrubbers uses a circular motion with a round pad or brush to agitate a cleaning solution against the floor to release soils. Standard Speed for Disc/ Rotary 175-350 RPM

- Similar to the disk style, square oscillating or orbital floor scrubbers move in a vibrating motion at a much faster speed. Standard Speed for Orbital 2250 RPM

Orbital Technology History

Orbital Technology History

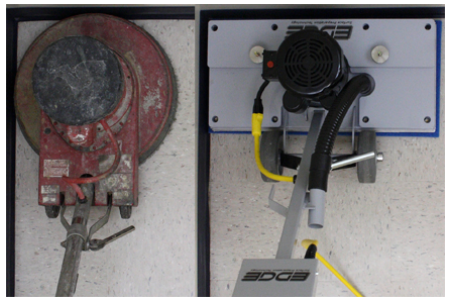


Orbital Benefits

- #1 USE for Orbital Autoscrubber.
- *Will Remove 1 to 3 coats of finish*
- *1000 sf in 15 to 20 minutes (with a 14X 20 AS)*
- Just Use Water

Orbital Benefits

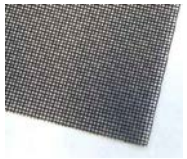
- 50 % labor saving compared to traditional methods
- For Daily Cleaning 40 – 70% reduction in water and chemical use
- Conventional reduces over all floor pad wear
- Autoscrubbers achieve Longer run time
- Able to get on corners versus Disc or Rotary Scrubbers



Various Platforms

Multiple uses

Multiple uses



THANK YOU

Questions?

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Quality Tools for Smart Cleaning™

Gold Sponsors

Bona
Passion for wood floors

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Thank You!

- Visit **greencleanschools.org** for resources and to register for upcoming events.
- A recording of the webinar and the presentation will be posted to our website and emailed to attendees.