ENVIRONMENTAL STEWARDSHIP ADVISORY COMMITTEE

MARCH 21, 2018
FEATURED PANEL:
ACTIVE TRANSPORTATION & AIR QUALITY

Anton Cox
Air Quality Program
Capital Area Council of Governments

Katherine Gregor
Active Transportation & Street Design Division
Austin Transportation Department, City of Austin

Christopher Stanton
Founder & Executive Director
Ghisallo Cycling Initiative
Helping People Choose To Bike for transportation in their busy daily lives
Vision Statement

The Austin Biking Encouragement Project helps people enjoy the many personal benefits of travel by bicycle, creates access to opportunity, and makes Austin a more sustainable, livable community.
“Turbo-Charging” Bikeway Investments

• 300 miles of improved bikeways (on-street, protected, and trail) built since 2008.
• At 25% build-out of “all ages and abilities” better biking network
• $20 million in new bond funding for bikeways
• $27.5 million for school connections
• $26 million for urban trails
• Awesome biking network within next 6 years
8-POINT PLAN TO GROW BIKE RIDERSHIP   2017-2020

1. **Love to Ride**  |  Biking encouragement program (digital, personal, teams)
2. **Biking Eco-System**  |  Holistically address people’s needs and barriers
3. **Biking Ambassadors**  |  Personalized encouragement (Smart Trips)
4. **Bikeway Activations**  |  Encourage people to use high-comfort bikeways
5. **Bike-Friendly Destinations**  |  Bike-friendly business & district program
6. **Ladders of Opportunity**  |  Help people bike for affordable transportation
7. **Vision Zero**  |  Safety education program (for drivers and cyclists)
8. **Partner Pledges**  |  Community actions and support to increase bike trips
Join the May Biking Challenge!

LoveToRide.net/Austin
Let’s Get Personal: Overcoming Barriers

WHAT’S KEEPING YOU FROM RIDING?

- The weather’s bad
- I don’t feel confident
- I don’t have time to ride
- I’ve got a flat
- My bike needs fixing
- It’s too hilly
- I don’t own a bike
- No safe place to park
- It’s too far

ANNOUNCEMENTS

WINTERWHEELERS - AUSTIN

- Don’t know a safe route
- Don’t own the right bike
7 Personal Motivations

- I want to be fitter!
- I want to be healthier
- I want to be outdoors
- I want to live sustainably
- I want to save money
- I want to spend time with family
- I want to save time
1. Register. It's free!

2. Ride for 10 minutes or more.

3. Recruit friends & colleagues.

4. Win Prizes!
Smart Trips

- Neighborhood-based
- Personalized encouragement
- Toolkit delivered to door
- Fall 2018: Central East Austin
Bikeway Activations
Encouraging people to use high-comfort bikeways
Bike to Manor Road Day
Sat. March 31, 12-4 PM
Earth Day Festival
“World of Biking” April 21
Huston-Tillotson Campus, 12 – 7 pm
Bright Green Future Grants
School-based Biking Encouragement
Ghisallo Cycling Initiative (bike clubs)
Vision Zero
Help Austin Reach Zero Traffic Deaths
Safe Cycling Skills Classes
Safe Routes to School Program & More
Thank You!
EARTH WEEK
APRIL 16-20

Earth Week 2018 Goal:
Every AISD student will take a moment to think about how they can make the earth a better place and perform an action to do so.

Earth Week Website (in development)
• Daily PA Announcements
• Activity Ideas for Each Action Area
• Green Meme Contest Info
• Featured Activities
  • Tree Mapping @ Lanier
  • Farm Fresh Friday – AISD Nutrition & Food Services

2017 Logo Design Winner
Najai Mckenzie-Robinson
Crockett Student
EARTH WEEK
APRIL 16-20

Meme must be informative and spark a behavior that supports sustainability

Contest info will be posted on Earth Week website (in development)
SUSTAINABILITY - PROFESSIONAL DEVELOPMENT

North Carolina Department of Public Instruction (DPI) Outdoor Learning Environments Initiative
Comprehensive Projects, Current, Professional Development, Schools

The Montessori School of Winston-Salem, NC
Design Assistance, Montessori Schools, Schools

Montessori Children’s School, Jacksonville, NC
Design Assistance, Montessori Schools, Schools

The Elizabeth Ann Clune Montessori School of Ithaca
Design Assistance, Montessori Schools, Schools

Blanchie Carter Discovery Park
Design Assistance, Parks and Recreation, Schools

Professor Robin C. Moore, Natural Learning Initiative
www.naturalearning.org
PRACTICAL APPLICATIONS OF SUSTAINABILITY IN THE 2017 BOND PROGRAM

CONVERSATION FACILITATED BY MATTHEW NELSON

GUEST: AECOM
Agenda

- Bond Projects Started and Status
- Campus Architectural Teams (CATs)
- Ed Specs
- Project Sustainability Goals
Bond Projects Started and Status

• Design Build Projects
  – in Schematic Design
  – TA Brown ES
  – Govalle ES
  – Menchaca ES
  – Doss ES & Murchison MS
Bond Projects Started and Status

• CMR Projects
  – Ann Richards – Finishing Master Planning
  – Eastside at ALC - Finishing Master Planning
  – New SW ES – Starting Schematic Design
  – Blazier Relief – Starting Master Planning

Kathlyn Joy Gilliam Collegiate Academy – Dallas ISD
Bond Projects Started and Status

- Bowie HS – A/E & CMR in procurement
- Rosedale – Bridging document effort planned to start in April
CATs (Campus Architectural Teams)

- Teams include 9-10 members:
  - School Principal
  - Instructional Staff
  - Administration Staff
  - Students (for middle school and high school projects)
  - Parents (including one representative from the Campus Advisory Council)
  - Community Members

- Also Included on the team:
  - Architect
  - AISD Facility Planning, Design and Construction Staff
  - AISD Teaching and Learning Staff
  - AISD Maintenance/Service Center Staff
Community Engagement Requirements

- **Schematic Design Phase**
  - Purpose is to inform stakeholder on:
    - the project parameters
    - how the building relates to the site
    - anticipated traffic flow
    - building orientation, etc.

- **Design Development Phase**
  - Purpose is for stakeholders receive information and provide feedback about:
    - the interior organization of the building
    - exterior appearance
    - parking, etc.

- **Construction Phase**
  - Prior to the start of construction, the community will be invited to meet a final time to:
    - discuss construction schedule
    - receive the plan for housing students in an alternative location (if needed)
    - provide contact information for the community should issues arise during construction.
Campus Master Planning Phase
(approximately 1-3 months)

- Plan for modernization of entire campus over time
- Account for future growth
  - Population and programming
- Construction sequencing and phasing considered
- Role of CAT:
  - Collaborate and come to a consensus on the long-term strategic goals of the campus
- Finalizing the masterplan allows us to move into design
Concept Development and Schematic Phase (approximately 1-5 months)

- In general, this process starts with the Design Charrette
  - A one or two-day collaborative work session involving the CAT, DT, AISD staff, and other stakeholders
- Site Plans, Building Footprint, Adjacencies
- Role of CAT:
  - Review, refine and verify the approved building program and schematic design

Menchaca ES Preliminary Layout:
Campus Advisory Team (CAT) Roadmap

1. Bond Approval
   - Pre-Meeting with campus planning teams
   - CAT School Tours

2. Concept Development
   - Academic Programming
   - Campus Master Planning with community
   - Design Charrette with community

3. Schematic Design
   - 2-3 months
   - Design Review with community
   - Rendering Presentation to community

4. Design Development
   - 2-3 months
   - CAT Design Reviews

5. Construction Documents
   - 6-9 months
   - CAT Design Reviews

6. Construction
   - Groundbreaking & Rendering Presentation to community
   - Project Construction Webcam Launch

7. Furniture, Fixtures & Equipment
   - Open House for community
   - New Space Orientation & Tech Training for teachers

8. New/Modern School
   - Ribbon Cutting and Community Celebration

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CAT Membership Agreement

• Participate in Scheduled Meetings
  – If you have to miss one, appoint an alternate
• Be Involved For The Duration of The Project
• Maintain Project Scope, Schedule, and Budget
• Work Collaboratively
• Be Respectful and Considerate Of Other’s Ideas
Ed Specs

OUR VISION: REINVENT URBAN ED

AISD Power Skills for 21st Century Learning—6 Cs

• Collaboration
• Communication
• Connection
• Cultural Proficiency
• Creativity
• Critical Thinking
Ed Specs

What does the research say?

Innovative Learning Environments + Teacher Change (ILETC)

“Can altering teacher mindframes unlock the potential of innovative learning environments?”

Graph adapted from Imms, Mahat, Byers, & Murphy (2017)

Ed Specs

New Concepts and Ways of Thinking

Flexible learning spaces
State-of-the-art technology
Community Spaces

pg. 17
Ed Specs

Learning Neighborhood Adjacency Diagrams

LEGEND

- OPAQUE
- TRANSPARENT
- FLEXIBLE/OPERABLE
- TOILET
- X QUANTITY OF SPACE

pg. 65
Ed Specs
MEASURES OF SUCCESS - COMMUNITY:

- LEARNER-DRIVEN PROJECTS – promote learner-driven project both on campuses and through community opportunities such as internships
- PARTNERSHIP MINDSET – foster partnerships when designing new facilities, developing curriculums, training staff, and supporting internships
- ROBUST LEARNING EXPERIENCE – provide neighborhoods and communities safe and secure access to schools to support student and community enrichment
- WRAP-AROUND SERVICES – provide hubs of support FOR wrap-around services in academic locations
- OUTDOOR SPACES – design outdoor spaces to accommodate student and community learning
Project Sustainability Goals

• Kick-Offs With All Project Teams
  – Include ACR and AISD Sustainability

• Discussing Goals
  – Most project aiming for pursuing LEED Silver
  – LEED v4 Schools
  – Draft LEED v4 Schools Scorecards

• Coordinating with Austin Energy Green Building program
Draft Scorecard for Menchaca ES

LEED v4 for BD+C: Schools
Project Checklist:

1. Integrative Process
   - Credits: 0
   - Requirements: 0

2. Location and Transportation
   - Credits: 10
   - Requirements: 15

3. Sustainable Sites
   - Credits: 4
   - Requirements: 12

4. Water Efficiency
   - Credits: 3
   - Requirements: 12

5. Indoor Environmental Quality
   - Credits: 4
   - Requirements: 16

6. Innovation
   - Credits: 4
   - Requirements: 6

7. Regional Priority
   - Credits: 4
   - Requirements: 10

Prepared by: Center for Maximum Potential Building Systems for EWS-ASD - 16 March 2010 rev 1

DRAFT
Draft Scorecard for Menchaca ES

### Location and Transportation

<table>
<thead>
<tr>
<th>Credit</th>
<th>Description</th>
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<tbody>
<tr>
<td>3</td>
<td>LEED for Neighborhood Development Location</td>
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<tr>
<td>2</td>
<td>Sensitive Land Protection previously developed site</td>
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<tr>
<td>1</td>
<td>High Priority Site brownfield remediation or 'difficult development area' 78701-03-25-32-33-34-36-38-39-46-49</td>
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<tr>
<td>1</td>
<td>Surrounding Density and Diverse Uses exclude athletic fields, playgrounds/PE bldgs from density calcs; 2pts diverse uses option TBD</td>
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<tr>
<td>1</td>
<td>Access to Quality Transit-% ES students w/in ≤3/4 mile walk distance - no transit available</td>
</tr>
<tr>
<td>1</td>
<td>Bicycle Facilities dedicated bike lanes on campus; w/in200yd of bike network; covered bike storage; no access to bike network</td>
</tr>
<tr>
<td>1</td>
<td>Reduced Parking Footprint not exceed min pkg per code:5% preferred pkg; ≤.25 spaces/student@860=215</td>
</tr>
<tr>
<td>1</td>
<td>Green Vehicles 5% preferred pkg green vehicles + EV charging 2% pkg or lo-emitting buses</td>
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### Indoor Environmental Quality

<table>
<thead>
<tr>
<th>Prereq</th>
<th>Description</th>
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<tbody>
<tr>
<td>Y</td>
<td>Minimum Indoor Air Quality Performance - ASHRAE 62.1-2010</td>
</tr>
<tr>
<td>Y</td>
<td>Environmental Tobacco Smoke Control</td>
</tr>
<tr>
<td>Y</td>
<td>Minimum Acoustic Performance - confirmed have acoustician on team</td>
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<tr>
<td>2</td>
<td>Enhanced IAQ Strategies entryway systems, cross-contam prevention MERV13 (1 pt) +lorCO2 monitoring (1pt)</td>
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<tr>
<td>3</td>
<td>Low-Emitting Mats paints; adhesives/sealants; flooring; composite wood/flooring, walls, insulation; furniture; ext prod</td>
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<tr>
<td>1</td>
<td>Construction IAQ Management Plan SMACNA control measures; MERV 8 filtration during construction</td>
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<tr>
<td>2</td>
<td>Indoor Air Quality Assessment 1 pt flush-out; 2 pts air testing</td>
</tr>
<tr>
<td>1</td>
<td>Thermal Comfort ASHRAE 55-2010 +individual thermal controls ≥50% occupant spaces</td>
</tr>
<tr>
<td>1</td>
<td>Interior Ltg Optl1:ltg control 90% indv occupant spaces w/3 level on/off/midelev 1pt +/OROptn 2 ltg quality 1pt</td>
</tr>
<tr>
<td>2</td>
<td>Daylight simulation/measurement options with point options dependent on % 55%, 75% optn 1; 75%, 90% optn 2</td>
</tr>
<tr>
<td>1</td>
<td>Quality Views direct sight line 75% reg occup'd area w/2+ types views: 90° apart; flora/fauna/sky; movement; objects</td>
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<tr>
<td>1</td>
<td>Acoustic Performance control background noise, sound transmission</td>
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# AISDFuture | AISDFuture.com
Menchaca Site Concept

DRAFT
Menchaca ES

- Registered with National Wildlife Federation for Eco-Schools program
- Teachers and students monitor and report data about their gardens and butterfly gardens
SUSTAINABILITY ACTION AREA UPDATES

SUBCOMMITTEE LEADERS
SUSTAINABILITY ACTION AREA UPDATES: ENERGY & WATER

RICHARD SHEARMAN
ENERGY AND WATER

• Community engagement – Austin Energy Regional Science Festival, February 24

About 145 people provided input
ENERGY AND WATER

• AISD Performing Arts Center has been nominated by Austin Water staff for its for an Excellence in Water Conservation Award at AW’s annual awards ceremony on April 27

• The City of Austin (Watershed Protection Department and Austin Water) are working with AISD’s Construction Management Department to setup two, “Lunch & Learns” in April.
  1. Using rainwater at new construction projects to reduce potable water demand and reduce localized erosion issues
  2. Retrofits with passive cisterns and rain gardens
ENERGY AND WATER

Energy and Water Webpage
https://www.austinisd.org/sustainability/energy-water

Ongoing - Monitoring of utilities
• Solar PV monitoring

• Water monitoring
  - https://bludashboard.cloud/
  - Investigating alternative options and irrigation controllers
SUSTAINABILITY ACTION AREA UPDATES:
TRANSPORTATION & AIR QUALITY

ROB BOROWSKI
SUSTAINABILITY ACTION AREA UPDATES: WASTE & PROCUREMENT

AMANDA MORTL
SUSTAINABILITY ACTION AREA UPDATES: FOOD & NATURE

ANNE MULLER
NATURE

• AISD Schoolyard Improvement Application
  https://www.austinisd.org/schoolyard-improvements-projects

• Girls Outside

• Schoolyard Features Spreadsheet

• Community Engagement

• District staff trainings: nature based play, cisterns, rain gardens, and outdoor learning spaces
• Johnson’s Backyard Garden radish sampling at all campuses the week of April 16 for Earth Week
• Harvest of the Month (all Texas farmers): Leaf Lettuce
• Farm Fresh Fridays: Johnson’s Backyard Garden Carrots
• Recyclable trays delayed due to production issues
SUSTAINABILITY ACTION AREA UPDATES:
COMMUNITY ENGAGEMENT

MONICA LOPEZ MAGEE
THANK YOU for all you do to help AISD be green!
Mark your Calendar! **FY17-18 Meeting Dates:**
5:30-7:30pm, Board Auditorium, Carruth Administration Center, 1111 W. 6th

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<td>September 27, 2017</td>
<td>Food &amp; Nature</td>
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<tr>
<td>November 29, 2017</td>
<td>Waste &amp; Procurement</td>
</tr>
<tr>
<td>January 24, 2018</td>
<td>Water &amp; Energy</td>
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<tr>
<td>March 21, 2018</td>
<td>Transportation &amp; Air Quality</td>
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<tr>
<td>May 23, 2018</td>
<td>Elections!</td>
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CONGRATULATIONS!

Join us for the

Barrington Green School Park
Dedication Celebration

Saturday, March 24, 2018
9:00 AM

This is an outdoor park event, please dress comfortably.

The City of Austin is proud to comply with the Americans with Disabilities Act. If you require assistance for participation in our programs or use of our facilities, please call (512) 974-3914.