REDESIGNING CLEVELAND

The first industrial revolution was based on brute force, cheap energy, wanton exploitation of resources, endless consumption, and careless waste. That age is over.

The great challenge in the next century will be to harmonize human activity with the earth's fragile biosphere. Companies, cities and metropolitan regions must redesign themselves.

We will all have to create new lives based on ecological principles. The discussion is starting in Greater Cleveland. See pages 4-7.

See us on the Web at www.ecocleveland.org

As we humans seek to create an environmentally sound future, no challenge will be more crucial, or more difficult, than bridging the ancient gap between rich and poor.

Can we learn to share?
The hardest sharing will not be of money — the rich have plenty of that — but of environmental space, because that will require Americans and other well-off folk to cut back their own consumption to make way for that of the ascendant poor.

—Mark Hertsgaard, from Earth Odyssey: Around the World in Search of Our Environmental Future

For humans to cause species to become extinct and to destroy the biological diversity of God's creation:

for humans to degrade the integrity of the earth by causing changes in its climate, by stripping the earth of its natural forests, or destroying its wetlands;

for humans to contaminate the earth's waters, its land, its air, and its life with poisonous substances — these are sins.

—Bartholomew I, Patriarch of the Orthodox Christian Church

Good words

Inside

Rail in our future?
Ecological design speakers series
Buildings that teach
Standards for a new convention center

For humans to cause species to become extinct and to destroy the biological diversity of God's creation:
New faces

We would like to announce some changes to the EcoCity Cleveland Advisory Board, the board that helps make sure that a diversity of community views are represented in the work of the organization and otherwise acts as a resource to improve our projects and publications. Eight persons have transferred off the Advisory Board after having served for a number of years. These include Diane Cameron, Sandie Crawford, Lee DeAngelis, Lois Epstein, Christine Hann, Kim Hill, Dave Knapp, and Chris Limpach. We would like to thank them all for their valuable insights and support of EcoCity Cleveland.

Next, we would like to welcome the following additions to the board: Patricia Corey of Regional Solutions, Herbert Crowther of Computer Communications Workers Union, Erin Russell of the Northeast Staff has new e-mail addresses. Messages for our director, David Orr and in dividual donations.

New addresses

Our staff has new e-mail addresses. Messages for our director, Bradley Flam, should go to bflam@ecocleveand.org. Messages for our project manager, Bradley Flam, should go to bflam@ecocleveland.org. And general messages to the organization should be addressed to staff@ecocleveland.org.

Thanks in advance for keeping in touch! The information—news, gossip, photos, suggestions—we get from readers forms an important part of this journal, our other publications, and our Web site. With your help, we can do an even better job providing the timely information people need to create a more sustainable bioregion.

—David Beach
Editor

MISSION

EcoCity Cleveland is a nonprofit, tax-exempt, educational organization. Through the publication of the EcoCity Cleveland Journal and other programs, it will stimulate aesthetic thinking about the Northeast Ohio region (Cuyahoga Bioregion), maintain an EcoCity Network among local groups working on urban and environmental issues, and promote meaningful ways to meet basic human needs for food, shelter, production, and a livable environment.

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The Chagrin River Watershed

By Ray McNiece

Slate upon slate delineating layers of chert, making the mica in the slate current, smoothing the valley.

Baked shale crumbles from gray cliff walls, a chunky movie, edges across the surface, healing, oozing, gliding, on.

I taste opening, Autumn sun intensifies on honest drones through golden apple skin as red rocks drain some sky above leafy flowers brightness that alights veins of eyes.

Perched on a red oak, root dangling overhang, I plumb the Chagrin flow below—

the name thereof. Not from considered shorthand ascribed to 12th-century Cleveland, shyly by shrews, interlaced with rhymes—

but the anglicized pronouncement of "St. John," Franch trapper who took to living the native way.

That first his company called it “Bichon,” "Bichon," for Algonquin "Cham-no-in-oh,"

Heads laid off trails hailing alongside, following the easiest inland grade from the south shore of Great Lake migrations.

Longer than deer runs, their paths connected rivers, were weathered by other trappers.

Now they are the Ridge and River roads I drive to arrive at this forest, cutting through forests once so thick a squirrel could leap from Eerie’s shores to Ohio River, never touching soil unless feet-pressed down.

I grow up amid remnants of old growth on the north ridge of an ancient inland sea. As a boy I jogged unarmed in a field beside the house on the hill off Euclid Avenue and found shells where once waves lapped—paved over now.

I learn from those that cut pine old man Robinson showed me in the backyard of his World of Books house at the foot of Shankland Boulevard, warming himself twice by cutting his own as Thoreau advised.

South eastern from the Willoughby water tower, I peered towards the foothills of Appalachia from whence a line of my people came, migrating until they hit the rusty lake and steel jobs.

Celts from glass, highways and down across the big pond, they tried to run one step ahead of industrial revolutions—

ending up again in the hands of cut pines. Bought or stolen from the Swanez was sold out from under them by banks back east.

Their woodless pace from generations—

how to skin and cut a surprised—was gradually dropped for the convenience store on the corner.

Paradise keeps getting lost.

From this vantage I fly out

over New England style barns and a single clapboard spire pointing above the maple-beech- oak-hickory forest.

EcoCity Cleveland 0 September 1999
ECOLOGICAL DESIGN

Redesigning the Forest City

The first industrial revolution was based on brute force, cheap energy, wasteful exploitation of resources, endless consumption, and careless waste. That age is over.

The great challenge in the next century will be to harmonize human activity with the earth's fragile biosphere. Companies, cities, and metropolitan regions must redesign themselves. We will all have to create new lives based on ecological principles.

It's hard to imagine what all this might mean. But consider the following "design assignment" posed by William McDonough, dean of the School of Architecture at the University of Virginia. He asks us to imagine designing a system which:

- Has billions of pounds of highly toxic material in the air, water, and soil every year.
- Requires no regulation because there is nothing there to require it.
- Produces materials so dangerous they will require thousands of future generations to maintain constant vigilance.

McDonough says that these are the retrospective design assignments of the First Industrial Revolution. It's a frightening design problem, he adds, because these assignments and values are artificial.

But now imagine being asked to design a system which:

- Releases no highly toxic material into the air, water or soil.
- Measures prosperity by how little capital is depleted and how much current income is accrued.
- Measures progress by the number of workplaces and industries enabling no harmful substances.
- Produces measurable savings in capital and operating costs and reductions in waste.

McDonough asks us to imagine designing a system which:

- Puts a closed-loop system into the building envelope to ensure that no mass, materials, or emissions ever leave the building.
- Baffles the need for outdoor waste systems.
- Delivers a closed-loop system for maintaining the city, and the regional systems to which the city belongs.
- Makes the city self-sustaining, ensuring that the environment is not over-exploited.

McDonough says, "These are the design assignments of the Second Industrial Revolution, and they are a 20th century revolution that is now at our doorstep.

From "Designing the Forest City" by William McDonough, in EcoCity Cleveland (September 1999).
Green Building Coalition formed

For years, individuals and organizations throughout Greater Cleveland have been working independently on green building ideas. Now these environmental activists, architects, engineers, builders, landscape designers, and other practitioners have a Green Building Coalition to link them together and promote their ideas. The coalition will be developing a directory of local expertise, educating the public about the value of ecological design, and helping to coordinate green building efforts. For information on how to get involved, call 216-732-3385.

Green building project

Preliminary planning is underway for a green building in Cleveland that would provide economical and environmentally-friendly office space to non-profit organizations. With a grant from the George Gund Foundation, the Earth Day Coalition has hired a consultant, Geri Unger, to investigate the space needs of local organizations and the feasibility of renovating a building.

Green building involves the use of nontoxic and recycled building materials, energy-efficient heating and lighting, waste minimization devices such as low-flow toilets, and other features that reduce energy use and pollution while creating a healthier work environment for the occupants of the building.

A model green building would serve several purposes. As the first, large-scale, non-residential green building in Cleveland, it would be a model for other buildings and perhaps promote a more extensive green building program. It would be a teaching building, open to the public, for environmentally sound design. And it would be the headquarters for local environmental organizations or other groups and businesses seeking space that is in sync with their environmental values. As part of an earlier phase of this project, Unger compiled a Green Building Compendium, which describes green building examples from around the country. For more information, call 216-991-3085.

Sustainable infrastructure

Why don't we build roads that last for 50 years like they do in Europe? That and similar questions have led Build Up Greater Cleveland, the infrastructure watchdog program of the Growth Association, to form a Sustainable Infrastructure Task Force. The goal is to recommend ways that local infrastructure agencies — transportation, water, sewer, and other public works — can be smarter, more cost-effective, and more sensitive to the environment in the long run.

The task force has spent a good deal of time discussing what it might mean to "sustainable" with respect to infrastructure. And it has come up with an interesting draft list of sustainable infrastructure principles. It also is developing a pilot project to demonstrate how sustainable infrastructure strategies can promote the revitalization of urban neighborhoods.

For more information, call Dave Gors or Vince Adams at 216-621-7220.

Sustainable business

A new Northeast Ohio Sustainable Business Council is exploring the links between economic health and long-term environmental sustainability. Partners in the group include the Ohio Environmental Council, Case Western Reserve University, and corporations such as BP-Amoco and Rockwell Automation.

In cooperation with CWRU's Center for Regional Economic Issues, the partnership is developing an institute for business executives that will explore how emerging ideas and practices of sustainability can give companies and the regional economy a competitive advantage. For more information, call Lisa Hong at 216-932-8056.

Life-cycle responsibility

In a sustainable economy, companies will become more responsible for the long-term use of their products. European nations are already adopting "extended producer responsibility" policies that require vehicle and electronics manufacturers to take back products after consumers are done with them. (Can you imagine returning your old car to Ford to be disassembled and recycled?) By placing the user in the production loop in this way, the manufacturer is more likely to redesign products and eliminate materials that cause operational and financial problems in recycling and disposal.

Now, a conversation about extended producer responsibility (EPR) is starting in North America. The recent Great Lakes Water Quality Forum sponsored by the International Joint Commission had a workshop on EPR that included speakers from European companies and U.S. firms, such as the Interface carpeting company, that have redesigned their products and business practices.

For more information on the Great Lakes region would benefit from EPR, call Great Lakes United at 716-886-0142.

Dow Jones green index

Wall Street is starting to pay attention to companies with a future-oriented focus on sustainability. For example, Dow Jones has created a new Sustainability Directors Index to track companies that integrate ecological, environmental, and social growth opportunities into their corporate strategies. According to a Dow spokesperson, "These sustainability companies pursue these opportunities in a proactive, cost-effective and responsible manner today, so they will outpace their competitors and be tomorrow's winners."

Canada leads all other nations with four top-ranked, sustainability-driven companies. For more information, see www.sustainability.index.com.

Clean Cities designation

The Great Lakes Science Center on September 14, U.S. Secretary of Energy Bill Richardson designated Northeast Ohio as a member of the national Clean Cities network. The program promotes the use of clean running, alternative fuel vehicles (such as buses running on compressed natural gas) in order to decrease our dependence on oil, stabilize the domestic economy, and reduce vehicle emissions. The Bicentennial Coalition led the local effort to secure the designation.

The Cuyahoga Valley (Environmental Education Center (CVEBEC) recently opened the November Lodge, a new activity center that not only provides needed space but also teaches environmental responsibility with ecological design.

Designed by the local firm of Schmidt Copeland Parker Stevens, the lodge contains a large multi-purpose room, an art room with sky lights to allow for natural day lighting, break areas, a computer lab, lending library, and a staff meeting area. It also includes the following environmentally sustainable features:

- Site selection: A previously disturbed site that would result in a minimum of new disturbances, as well as all utilization of existing utility and vehicular connections, was selected for the site of the new building. The site also enabled an unobstructed tenant court to be restored into a natural area as part of the project.
- Building orientation: The building is oriented to achieve optimum passive solar gain, daylight benefits to interior spaces of the building, and cooling from cross ventilation.
- Landscaping: Energy demands are reduced by strategically placed plantings to affect micro-climate around the building. Evergreen trees on the north side of the building provide a wind break and buffer from cold weather. Deciduous trees on the south side provide summer shading. Native and indigenous plantings support biodiversity and utilize less water and fertilizers.
- Building design: Windows and public gathering spaces on the south side of the building and a minimal use of windows on the north side reduces the energy demand on the building.
- Recycled materials: Structural framing in the multi-purpose room utilizes timbers that have been recycled from demolished structures.
- Renewable resources: The heating and cooling of the building utilizes geothermal energy. Daylighting within interior spaces is achieved with the orientation of the building, window placement, utilization of clerestory windows and sun tube sky lights. Interior fans and natural ventilation reduce the need for mechanical heating and cooling. Wood venner doors are from timber production that is considered a renewable resource.
- Local materials: Utilization of local building supplies and materials reduce transportation (energy consumption) and contribute to the local economy. Masonry and wood trim for the building are locally produced utilizing locally obtained materials.
- Structural materials or finished materials: Exterior masonry walls have been painted on the inside face, allowing a structural element to double as a finished surface. This treatment reduces building components and consequently conserves resources.
- Life-cycle considerations: Forty-year roofing shingles are used to maximize the life span of the shingles. Durability materials save energy costs for maintenance as well as for the production and installation of replacement products.
- Energy conservation: Low-flow toilets and faucets promote resource conservation. The heating and cooling system is zoned to tailor requirements to the specific areas of the facility. Exhaust and ceiling fans reduce summer cooling demands. Energy-efficient fluorescent lighting is used throughout the building. Insulated glass in windows was selected to reduce energy demands.
- Eliminate pollutants: Installation material selections do not contain chlorofluorocarbons or hydrochlorofluorocarbons that deteriorate the ozone layer. Paints, stains, and varnishes were selected to avoid materials that off-gas volatile organic compounds and contribute to indoor air pollution.

The CVEBEC is a 128-bed educational retreat facility located on a 500-acre site in the heart of the Cuyahoga Valley National Recreation Area. It was created out of a partnership between the recreation area and the Great Lakes United Association. For more information about November Lodge, call the environmental center at 330-657-2796 or Schmidt Copeland Parker Stevens at 216-696-5767.
We'd like to believe that convenient, efficient, environmentally-friendly passenger rail is an option for Northeast Ohio. If done right, rail could provide transportation options, reduce traffic congestion, and promote the redevelopment of town centers throughout the region. Currently, eight feasibility studies of passenger rail service are underway in Northeast Ohio (see map at right for the routes being considered). They include options ranging from extensions of RTA's existing Rapid lines to intercity service to Chicago and throughout the region.

- **Red Line**: The RTA-sponsored Berea-X Center Red Line extension study is drawing to a close. Technical analysis and public involvement have been completed, and the study will now go before the boards of RTA and the Northeast Ohio Areawide Coordinating Agency. Each board will separately choose a "preferred alternative" of the six that have been studied in detail. Five of the alternatives are for various extensions of the Red Line Rapid transit rail to the I-71 center near Cleveland Hopkins International Airport and beyond (to Berea, Olmsted Falls, and or Columbus Station), and the sixth is a transit improvements alternative that would improve the frequency and resting of bus service in the southwest suburbs. For more information, call Ed Taylor at RTA (216-566-5020).

- **Blue Line**: Just as the Red Line extension study ends, a Blue Line extension study should be in its initial phases. At the RTA board meeting on September 28, the board will award a contract to a consulting team to conduct a study of the alternatives for extending the Blue Line to the vicinity of Harvard Rd. and I-271. The extension could be an important part of shaping the Chagrin Highlands development in ways that are more transit-friendly than the typical suburban office park. Call RTA's Rich Pastior at 566-5260 for more information.

- **Waterfront Line**: RTA's Waterfront Line is also being studied for ways to loop it back towards Tower City using some north-south alignment between E. 13th and E. 21st Streets in downtown Cleveland. Public meetings were held in July, and a final recommended plan will be submitted for review to RTA, the City of Cleveland and NOACA in the fall. For more information, call 216-523-2939 or visit the Internet Web site at www.mkcentennial.com for more information.

- **Commuter rail**: $620,350 in funding to conduct phase 2 of a commuter rail feasibility study for Northeast Ohio was released to NOACA by the Federal Transit Agency on September 20. Phase 2 ended over six months ago with the recommendation to continue studying seven possible routes radiating from downtown Cleveland. Two of those routes connect Cleveland with Akron, and two link Cleveland with Lorain County destinations (Lorain and Elyria/Ambler), so it's likely that two or more of the scenarios may not make the final cut. The major product of phase 2 of the study will be an implementation plan. It's expected to be completed sometime in early 2001. For more information, contact Steve Jones of the Northeast Ohio Areawide Coordinating Agency at 216-241-2414, ext. 332.

- **Cleveland-Akron-Canton corridor**: What are options for easing traffic congestion in the I-77 and SR 8 highway corridors? Coordinators of the Cleveland-Akron-Canton Major Investment Study (MIS) organized public meetings the week of September 20 to gain input about the transportation needs in the corridor and potential solutions. Passenger rail serving the three cities and suburbs in between is one of the options under consideration. The study is supposed to announce a "preferred alternative" in mid-2000, with several more opportunities for public input between now and then. For more information, call 134th Conservation & Design at 216-371-3323.

- **2C passenger rail**: Backers of the proposed Cleveland to Columbus passenger rail service were disappointed on September 20 when the committee studying the feasibility of such service postponed making a decision until they next meet on October 15. Delays in obtaining accurate cost estimates for service construction and other capital costs were the cause of the delay. The study committee is considering just two round trips a day. For more information, call the Ohio Rail Development Commission at 614-644-0163.

- **Midwest rail network**: Planning is moving ahead steadily for the establishment of a Midwest high-speed rail network with links from Chicago to Cleveland, Cincinnati, St. Louis, Minneapolis and other Midwest cities. A preliminary study, coordinated by the National Commodity Transportation Board, was released in the summer of 1999, and a second phase study will come out this fall. Ohio, Michigan, Illinois, Indiana, and Wisconsin are all working towards connecting their rail networks. For more information, call 216-523-2939 or visit the Internet Web site at www.mkcentennial.com for more information.

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Room for driving alone

As part of the deal to widen I-90 and I-71, local transportation planners agreed to study whether the new lanes should be reserved for high-occupancy vehicles (i.e., vehicles with more than one passenger). In congested highway corridors, exclusive HOV lanes create an incentive for car-pooling and transit. Thus, they can move more people and allow the highway to operate more efficiently.

But the study found that HOV lanes are not justified on I-90 and I-71 at this time, except in a couple of short segments where there are traffic bottlenecks.

Ironically, it seems that we have already built so much highway capacity to reduce congestion in Northeast Ohio that few people would be motivated to change behavior and use HOV lanes.

Mentor interchange ok'd

In late July, the Federal Highway Administration (FHWA) gave its stamp of approval to begin work on the controversial I-90/SR 615 interchange in Mentor. Many city residents, especially those living on Center Street (SR 615), which will be widened from two to four lanes as part of the project, have long argued that wetlands, historic structures and their quality of life will be adversely affected by the new interchange, the road widening and the increased traffic.

But the FHWA concluded there would be no significant impact, pleasing city officials who claim the project is necessary to alleviate congestion on I-90 and I-80. Call ODOT District 12 (216-581-2333) or the Center Street Area Preservation Society (440-255-3332) for more information.

Ohio highway dollars at work

The Ohio Sierra Club reports that citizens are opposite highway-expansion plans in and near Northeast Ohio:

• Organized as CASH (Coalition Against Superfluous Highways) activists in the Athens area are forcing the Ohio Department of Transportation to abandon plans to widen I-70 from two to four lanes as part of the project.

In the future:

It's an old idea whose time has come again. Great places for people (and for the environment) are created by mixing land uses—residences, stores, work places—and emphasizing walkable, urban settings that are not overbuilt by the automobile. Such mixed-use town centers are an emerging market for real estate developers, and several are being built or planned in and around Cleveland. One example is the Upper 36 development near the Cuyahoga River, which will include offices, apartments and retail space. Another is the development planned for the old Flats area in Cleveland, which will include a mix of residential, retail and entertainment uses.

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**ECO CITY DIGEST**

**ODOT enfranchised**

The governing board of the Northeast Ohio Areawide Coordinating Agency (NOACA) decided on September 11 to offer its Cuyahoga County members representation on the board. The decision followed months of contentious debate and the rejection of several NOACA board members representing Cuyahoga County constituencies. Before being finalized, each of the five county commissions in the NOACA region must also approve the proposal. The approved motion specified only a single seat and vote for ODOT. Several

**Department of Transportation members representing Cuyahoga County NOACA decided on September 11 to offer the constituencies. Before being finalized, each supply each year, yet thousands of families in places like Cuyahoga County are forced to look to their zoning commission to help protect the wetlands. The Cuyahoga County Solid Waste District hopes to keep usable items out of the solid waste stream. To get a free copy, call 441-3794, or look up the district’s web page at www.egov.org/solidwaste.

**Shopping food waste:** Americans throw away one-tenth of the nation’s food supply each year, yet thousands of families cannot afford to buy groceries to put food on the table. The Northeast Ohio Areawide Coordinating Agency has published a guide: *A Violent World: A Guide to Donating Disposable Stuff*.

**Leaf humus:** The Greater Cleveland Ecology Association reminds everyone that leaves are an essential and environmentally beneficial soil condition and mulch. Call 216-687-1266 for ordering information.

**Batteries:** Nickel-cadmium rechargeable batteries should be recycled to prevent toxic chemicals from reaching the soil. New Ni-Cd batteries have recycling information on the label. In Cuyahoga County, call 216-734-3749 for recycling locations.

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**Large lots?**

Residents of Concord Township in Lake County are debating whether to increase minimum residential lot sizes in the eastern part of the township. Lots would increase from the current half-acre to three-quarters of an acre or more.

While it’s easy to sympathize with the people of the township, who desperately look to their zoning commission to help preserve the rural character of their community, large-lot zoning may not be the answer they want. In fact, large lots will only lead up the loss of open space and make Concord Township residents cherish more — peace and quiet, rural vistas, and a clean and healthy environment.

Lot sizes of an acre or more eat up rural landscapes at a fast clip and require expensive investments in infrastructure: roads, water and sewer lines, and electrical and telephone wires. Moreover, large lots present the development of large homes and makes the American townos that many people say they want. Our ancestors didn’t build picturesque scenes like Chagrin Falls, Burton Village, Medina, Oberlin, and Vermilion with large lots.

If we truly want to save the rural character of Concord Township and other rural areas in our region, we have to stop serving up the landscape with cookie-cutter subdivisions of large lots. Instead, we should zone for more compact villages and small towns that mix attractively designed homes, small businesses, and workspaces.

Around our towns we should protect the rural landscape with conservation easements, agricultural zoning, or the purchase or transfer of development rights.

**Clean environment — regardless of cost?**

Polls continue to show that Americans have few worries about the environment. A recent survey by a Republican polling firm revealed that 67 percent of U.S. adults say environmental protection is important but requirements and standards cannot be too high, and continuing environmental improvements must be made, regardless of cost. * The 60-percent figure was up from 52 percent in 1992. The poll of 800 registered voters was conducted by Public Opinion Strategies.

**Recommendation:***

Stop being angry that commuters are using W. 14th Street to avoid the traffic congestion problems. For example, residents in both the new and old Parma wetlands: Traffic shortcuts: As we build communities in which people are more dependent on cars, many formerly quiet streets are suffering from traffic congestion. For example, residents in both the new and old Parma wetlands.

**Kuster's Woods:** The Ohio Department of Mental Health is planning to sell 80 acres of pristine Ohio land in the Ohio Hills for a housing development. The land is now home to the Wilderness Challenge program, which provides outdoor learning experiences for non-profit organizations and challenged children. The issue — like the case in Bath Township, where Ohio State University sold the Firestone estate — raises many questions about how to preserve valuable land. Is the public good best served by selling out for the highest price in the short term or by preserving the land in the long term?

**Traffic congestion:** As we build communities in which people are more dependent on cars, many formerly quiet streets are suffering from traffic. For example, residents in Cleveland’s Tremont neighborhood are suffering from street noise. The problems are due to noise from vehicles and waste. What we need is a comprehensive information on how to soften the...
**THE GREATER CLEVELAND ENVIRONMENT BOOK**

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- October 2
- Ohio Division of Natural Areas and Preserves workshop at Holden Arboretum on the threats of non-native plants in Ohio. Call 614-265-6468 for details.

- October 2
- Hike along Mill Creek to Cleveland's hidden waterfall, Mill Creek Falls, 10 a.m. at the Cleveland Metroparks Garfield Park Nature Center.

- October 2
- Trailhead tour of sacred landmarks sponsored by the Cleveland Restoration Society. 9 a.m. departure from Notre Dame Academy, Amel Road at Superior Avenue. For reservations, call 216-431-3880.

- October 3
- Amish backroads bike tour starting at 3 p.m. at the Geauga Park District's Ashtabula Creek Lodge. To register, call 440-834-1856, ext. 5420.

- October 5
- Brown bag lunch presentation by the Native Forest Council about protecting wilderness on public lands, noon at the Nature Center at Shaker Lakes, 6200 South Park Ave. Point.

- October 6
- Public forum on flooding and erosion problems in the Chagrin River watershed, 7 p.m. at Hinsdale Township Hall. Call the Chagrin River Watershed Partners at 440-975-3870.

- October 9
- Hike to observe migrating ducks, 8 a.m. at the Cuyahoga Valley National Recreation Area's Shafer Trailhead off Riverview Road.

- October 9
- Annual meeting and dinner of the Cuyahoga Soil and Water Conservation District, 6 p.m. at the Cleveland Metroparks East Side Conference Center, 4544 E. 49th St. For reservations, call 216-524-5850.

- October 12
- "Re-Zealizing Cleveland" speaker series with architect William McDonough, world-renowned speaker in ecological design, 5:30 p.m. at the Cleveland Public Library Louis Stokes Wing Auditorium. For more information, call 216-732-3885.

- October 13
- NOACA Bicycle Advisory Task Force meeting, 6:15 p.m. at 1239 Superior Ave. in Cleveland. Call 216-241-2414.

- October 15
- Living in Cleveland's 7th Annual Celebrating Cleveland awards reception (including an award for EcoCity Cleveland), 4 p.m. at the Nuineon Church. Call 216-781-5422 for more information.

- October 15-17
- Expo Congress 2000 at the University of Pennsylvania to help build the student environmental movement. For registration information, call 877-500-STUDENT or see www.enviro2000.org.

- October 16
- Healthcare walking tour of historic Lakewood Cemetery, 10 a.m. Call 216-421-2665 for reservations.

- October 17
- Twenty-Four Marathon along the Ohio & Erie Canal. For details, call Ohio Canal Corridor at 216-348-1825.

- October 17
- National conference on regional strategies in Memphis, TN. For registration information, call Partners for Livable Communities at 202-887-5990 or see www. livable.com.

- October 18
- Meeting of the steering committee considering Cleveland-to-Columbus passenger rail service, 1 p.m. in Columbus. Call 614-444-0313 for meeting location.

- October 20
- Environmental evening for the Earth, a benefit for the Earth Day Coalition with members of the Cleveland Orchestra, 7 p.m. at St. Peter's Episcopal Church, 1801 Detroit Ave. in Lakewood. For ticket information, call 216-281-6468.

- October 24
- Hike to explore the role of stone quarries in the history of the Cuyahoga Valley, 2 p.m. at Lock 29 Trailhead of the Cuyahoga Valley National Recreation Area, Mill Street in Peninsula.

- October 24
- West Woods hike through the Geauga Park District's new park, 2 p.m. For more information, call 440-834-1856, ext. 5420.

- October 26-28
- Ohio geographic information systems conference and exposition in Columbus. For registration information, call the Ohio County Engineers Association at 614-241-0707.

- October 27
- Monthly public meeting of the Northeast Ohio Sierra Club, 7:30 p.m. at the Nature Center at Shaker Lakes, 2600 South Park Blvd. in Shaker Heights. The program will focus on world-population issues with a new video, "Iampedock," which looks at the population crisis from a young adult point of view. For more information, call 440-871-8314.

- November 2
- Brown bag lunch presentation by Paul Christiansen of Neighborhood Progress Inc. about redeveloping urban brownfields, noon at the Nature Center at Shaker Lakes, 2600 South Park Ave.

- November 4
- Community Reinvestment Action Conference: Living in Cleveland's Redevelopment Neighborhoods: An Antidote to Urban Sprawl, 8 a.m. to 9 p.m. at Cleveland State University's College of Law. For more information, call 216-371-4285.

- November 12
- Hike to the mouth of the Cuyahoga River at the Nature Center at Shaker Lakes, 2600 South Park Ave.

- November 18
- Community Reinvestment Action Conference: Living in Cleveland's Redevelopment Neighborhoods: An Antidote to Urban Sprawl, The annual conference of the Cleveland Neighborhoods: Ray Suarez, host of National Public Radio's "Talk of the Nation," and co-host of the book, "The Old Neighborhood." What We Lost in the Great Suburban Migration, will speak at a luncheon of the Ohio Planning Conference, 11:45 a.m. October 8, at the Sheraton City Center Hotel in Cleveland. Tickets cost $25. For more information, call Sally Hanley at 216-973-2410. The event is part of OPCA's annual conference.

- November 20
- Ohio Alliance for the Environment annual conference. For registration information, call 614-487-9975.

- November 22
- Presentation by Ohio nature photographer Ian Adams, 7 p.m. at the Cuyahoga Valley National Recreation Area's Horny Days Visitor Center on SR 30.

- December 1
- Redesigning Cleveland" speaker series with David Crockett, Chattacoo City councilman and leader in creating sustainable and competitive communities, 5:30 p.m. at the Cleveland Public Library Louis Stokes Wing Auditorium. For more information, call 216-732-3385.

- December 4
- Festival of Peace and Diversity and holiday bazaar sponsored by Women Speak Out for Peace and Justice, 10 a.m. to 4 p.m. at Pilgrim Congregational Church, 1582 W. 14th St. in Cleveland.

**BIOREGIONAL CALENDAR**

- Smart growth events
  - Statewide symposium on growth management: As an introduction to its annual state convention, the Ohio Planning Conference is hosting a statewide symposium on "Growth Management Options for Ohio." The event on October 6 at the English Oak Room of Tower Center City will feature panels of experts discussing regional and statewide perspectives and national perspectives. For registration information, call Sally Hanley at 216-241-2414.
  - Ohio Planning Conference: This is the annual conference for the Ohio chapter of the American Planning Association. It starts on October 6 with the symposium listed above and runs through October 8 with presentations and workshops on many planning topics, most held at the Sheraton City Center Hotel in Cleveland. For registration information, call 216-241-2414 or 216-696-4000.
  - Maryland model: The Urban Land Institute is sponsoring a forum on the applicability of the Maryland smart growth program to Ohio, 7:30 to 9:30 p.m. on October 7 at the Brecksville Community Center. Ron Young of the Maryland Office of Planning will speak. To register, call the Urban Land Institute at 800-321-5011 or 440-877-1085.
  - In praise of neighborhoods: Ray Suarez, host of National Public Radio's "Talk of the Nation" and author of the new book, "The Old Neighborhood." What We Lost in the Great Suburban Migration, will speak at a luncheon of the Ohio Planning Conference, 11:45 a.m. October 8, at the Sheraton City Center Hotel in Cleveland. For more information, call Sally Hanley at 216-973-2410. The event is part of OPCA's annual conference.
  - Planning and diversity: The Cleveland State University College of Urban Affairs is sponsoring a "Century of Planning in Cleveland," a community forum on the role of planning in Cleveland's development, 7 a.m. to 12:30 p.m. October 9, at the Cleveland Public Library Stokes Auditorium, 325 Superior Ave. Modernized by Plain Dealer architecture critic Steven Litt. To register, call 216-687-3509.
  - Church in the City celebration: To conclude a recent series of Church in the City regional forums, the Catholic Diocese is hosting a celebration at 7 p.m. October 1 at the Segundo Family Church, 7719 Detroit Ave. in Cleveland. Featuring an address by Bishop Anthony Filla, the event will summarize the forum series and include a multi-cultural video. To reserve a seat, call 216-696-6325.
  - Neighborhoods vs. sprawl: More and more people are realizing that the best way to take development pressure off the countryside is to reinvest in existing urban areas so that neighborhoods are great places in which to live. Following that theme, local fair and affordable activists are sponsoring a Community Reinvestment Act conference on "Sustaining Neighborhoods: An Antidote to Sprawl." The conference will be November 4 at the Cleveland State University College of Law. For details, call the Metropolitan Strategies Group at 216-371-4285.
Physiographic regions of Ohio

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The map at right is a new update of Ohio's physiographic regions. It was created by C. Scott Brockman for the Ohio Division of Geological Survey. To order copies, call 614-265-6576.

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