New Urbanism and Smart Growth: Twins Separated at Birth?

David Gordon

"New Urbanism and Smart Growth: A Research Symposium," conference sponsored by the National Center for Smart Growth Research and Education (NCSGRE), University of Maryland at College Park, May 4-5, 1997.

As more communities are built following the principles of the New Urbanism, serious researchers have begun to check whether the underlying urban design principles and chosen precedents of its practitioners are truly effective. Indeed, the many New Urbanist projects now nearing completion are being seen as laboratories in which to test the movement's key claims. Among the questions researchers have started asking are these:

- Can a walkable neighborhood really reduce automobile trips?
- Does a neighborhood designed with New Urbanist principles demonstrably improve its residents' sense of community (or civility) when compared to conventional suburban development?
- Can New Urbanist designs reinforce ecological planning?

If New Urbanism's principles are supportable in practice, its advocates should have little to fear from such research — and much to gain. Thus, it was a sign of New Urbanism's coming of age that the Congress for the New Urbanism's 2002 academic conference, "New Urbanism and Smart Growth," was the most relaxed, most interdisciplinary, and most focused on research of that organization's gatherings to date.

In recent years the CNU has also tried to widen its focus. In particular, it has formed partnerships with the federal government's HOPE VI program for inner-city projects, and with the Smart Growth Network for regional planning. In this regard, the May conference was also a coming-out party for the new National Center for Smart Growth Research and Education, its co-sponsor.

The location of the conference at the Center's home base, the University of Maryland at College Park, signaled these new allegiances. The institution is well suited to analyze Smart Growth, and its School of Architecture is open to the ideas of New Urbanism (its dean, Steven Hirt, is chairman of CNU's education task force). By contrast, CNU has had a tough time infiltrating many elite architectural schools, as demonstrated by the mixed results of its first four academic conferences. In particular, the fierce discussions at Harvard, UC Berkeley, and Michigan that followed the 1998 Seaside debates generated much smoke, heat and press, but not much light.

There is much in the field of urbanism that remains unsubstantiated by rigorous peer-reviewed research, the standard of proof in the academic world. This often places urban designers at a disadvantage in relation to other specialists, most notably landscape ecologists and transportation planners. Lack of hard research is particularly damaging in forums where scientific data is valued, as in administrative decision-making and the awarding of government funds.

It was particularly encouraging, therefore, that many of the papers presented at the 2002 CNU academic conference succeeded in establishing a clear research agenda. Such an objective stance not only helps define what we think we know, but more importantly, what we do not know about urbanism.

The Design Transportation Link

The conference opened with a stimulating exchange between its keynote speakers, Maryland's Governor Parris Glendenning and the CNU's Andrés Duany. Glendenning proudly pointed to how Maryland had created the nation's leading Smart Growth program, targeting state infrastructure expenditures to shape development and conservation.

Duany, meanwhile, vigorously proposed Miami as a poster child for Smart Growth, citing its metropolitan government (1945), urban growth boundaries (1976), unified school district, higher regional density, and MetroRail system as evidence of the kind of policies that Smart Growth advocates recommend.

Duany also challenged those in attendance to see how a regulatory response may not be enough to enhance overall quality of life. Without attention to place and community, he said, planners may just create "high-density sprawl."

Such comments about the value of urban design clearly touch a nerve in the fledgling relationship between New Urbanism and Smart Growth. While the CNU was one of the founding partners of the Smart Growth Network, New Urbanists may still be surprised to find that Smart Growth does not require their vision of good urban design — particularly on transportation issues.

The conference's dual mandate was examined in more detail in later paper presentations. In particular, Susan Handy (University of Texas) presented an exemplary transportation research review. She reported there is still much to be unraveled in terms of the complex interaction between built form and travel. However, research results are fairly definitive on several issues:

- New highways do not cause sprawl, but they help determine its location.
- As a corollary, a moratorium on new highways will not prevent sprawl.
- Travel increases after new road
construction, but it also increases after
road construction.

Light-rail transit will only increase den-
sity in corridors with strong intensifi-
cation policies in place.

However, on a key issue of interest
for Places readers—whether good
urban design reduces automobile use—
Handy’s findings were more disap-
pointing. Apparently, urban design
matters somewhat, but good regional
land-use planning matters more.
Thus, a centrally located infill project,
even if poorly designed, will have
more impact on reducing work-
related automobile travel than a
greenfield project with the finest
urban design. On the other hand,
we don’t know much about nonwork
travel, according to Handy; and this
comprises more than half of the ten
daily trips associated with each new
home. These are the auto trips that
good community design may have the
most potential to replace or reduce,
and they are an obvious target for
more research.

Among other things, such findings
indicate why urban design issues are
not a core concern of Smart Growth
advocates. Thus, while good urban
design of the sort New Urbanists pro-
pose could marginally improve the
transportation performance of an
inter-city infill project, Smart
Growth policy analysis might not
force the issue. Indeed, such diver-
gences are one reason NCGRE
Director Tom Downs has described
Smart Growth and New Urbanism as
“twins separated at birth.”

Urban Form Research

In comparison to transportation, the
academy has hardly pricked the
surface of issues like public health,
community, information on technology,
and urban form. But is his presenta-
tion, landscape architect and planner
Larry Frank (Georgia Tech) sug-
gested that the relationship between
health and urban form is a promising
avenue for future research. In particu-
lar, air-quality problems and the
recent attention to obesity in North
America have already attracted sub-
stantial funding for rigorous long-
term studies.

Frank explained how partnerships
between urban designers and public-
health advocates go back to the ori-
gins of the planning movement in
the late nineteenth century. But the
burden of proof today is much higher.
Merely asserting that good urban
design would public health bene-
fits may have been sufficient in the era
of Frederick Law Olmsted. But the
public-health lobby has clout today
because it is able to cite rigorous cli-

tical trials in support of its policy
recommendations.

In comparison, we barely know
how to measure the composition of a
city, according to the presentation by
Emily Talen (University of Illinois).
Terms like sprawl, density, and mixed

use lack specificity and encompass a
wide range of phenomena, she said. As
a result, they are considered unreliable
for analysis.

There has also been much general
discussion of “community” in New
Urbanist literature. Sociologist David
Brain (New College) argued that the
concept of “community” might be the
wrong one for designers to pursue —
after all, Herbert Gans was able to
find it even in Levittown. Instead,
Brain argued that a good place may
depend more on civility (the norma-
tive order of behavior) and social capi-
tal. The pending completion of more
New Urbanist projects may be partic-

tularly telling in this regard. The first
rigorous social studies of these com-


munities are just appearing. Through
the late 1990s, researchers had little
to go on other than the evidence of
Seaside, the Kentlands, and Laguna
West.

In contrast to such vague declara-
tions of social value, landscape ecolo-

gists are often far ahead of urban
designers in their ability to analyze the
phenomena that concern them. They
use Geographic Information Systems
to analyze road patterns, stream net-
works, impervious cover, and habitat
fragmentation at a regional scale.

However, such a “radical difference
in scale and orientation around the
sharpest exchange of the conference.
This occurred during Maria Alberti’s
presentation on ecology, environ-
ment, and sustainable development.
Her work made it evident how little
common ground there may be
tween regional landscape ecology
and traditional neighborhood devel-

opment (TND). In particular, urban-
ists in attendance raised concerns
over the low level of human use pro-
gressed after metropolitan environmen-
tal protection.

Can human diversity and biodiver-
sity coexist? Recent research indicates
that effective ecosystem planning
should be done at a regional scale,
long before neighborhood design.” By
the time urban design begins on
a 640-acre TND the potential for
environmental conflict is much
higher, since development impacts
can extend well beyond the site.
Smart Growth initiatives and the
“West Coast” strain of New Urban-
ism may address environmental issues
with less conflict.

Economist Anthony Downs con-
icluded the conference by giving a cold
shower to the enthusiasts of Smart
Growth and New Urbanism advi-
ces. He warns that local and state
governments in the U.S. have a dismal
record in implementing regional plan-
ing (the state is often the only level
that can do planning at this scale, and
few do it well). The author of Stock in
Traffic, Down's warnings carry weight, because he has had a successful long-term record observing urban-pollution issues. Some benefits have emerged from New Urbanism, he said, especially at the neighborhood level. But the market economy places limits on how far developers and designers can push the behavioral reforms some New Urbanists propose.

Downs did predict that some benefits will emerge from New Urbanism by self-selection. Specifically, people who want a walkable suburb will finally be able to buy into one. But good streetscapes may not be enough to get other people out of their cars. And he warned against any suggestion that Smart Growth policies or New Urbanist designs will rescue road congestion on a regional scale. Complicated and powerful forces are pushing travel in ways that are not well understood.

Finally, Downs challenged New Urbanists to conduct more research on how their projects will benefit lower-income people, particularly by creating more affordable housing through higher levels of density on greenfield sites.

Reflections
In many of these fields, New Urbanist planners are attempting to design the built environment to shape human behavior — an endeavor that is no longer automatically rejected as "environmental determinism" by infomed observers. Evidence exists that the physical environment can condition some behavior, by design or default. But, as Doug Kelbaugh noted, the real power of architects and urban designers may lie in their ability to lead by representation. The ability to envision and prepare a persuasive proposal for the future remains a powerful tool for change.

Furthermore, while changing human behavior is a difficult and long-term objective, the anti-smoking campaign has shown it can be done — even in the face of tobacco advertising that rivals Detroit's promotion of automobile. Thus, as Dr. Howard Fromlin (Emory University) noted, there is much that urban designers may learn from public-health advocates:

- Stronger evidence is more compelling than weaker (clinical trial vs. use studies).
- Policies with multiple benefits (TNDs) are more effective, since at least one of their elements may work.
- Future benefits for the health and quality of life of our children are very compelling in the public-policy arena.
- Such tactics may help the Smart Growth Network and the Congress for New Urbanism shape new research agendas for transportation, environmental and social issues.

To date, the academic debate over New Urbanism has not shed much light on these issues. In some ways the situation recalls the "Garden Cities vs. Garden Suburbs" debate of the 1920s. At that time, there was tiny, struggling Letchworth to evaluate — and maybe Hampstead Garden Suburb as an alternative — but little else.

The literature from that era was similarly spirited. But not much of it was informed by close observation of built work, until the New Towns were developed in the 1950s. Both critics and proponents of New Urbanism now have a similar opportunity to investigate whether their rhetoric reflects reality.

Notes
2. Scans of books and peer-reviewed research articles have recently been published. For a detailed bibliography of the wide range of academic research relating to New Urbanism and Smart Growth discussed in the article, see www.cnp.org/cnp_reports/academic_biblitoc.pdf.
4. The NESGRI will publish the proceedings of the conference in 2003. For Hardy's and other papers, see www.sustainablehomes.com/2002papers/Confrence.html.