

AVAILABLE RESOURCES

Pave Ahead and Pavement Designer

Art Thompson
Executive Director

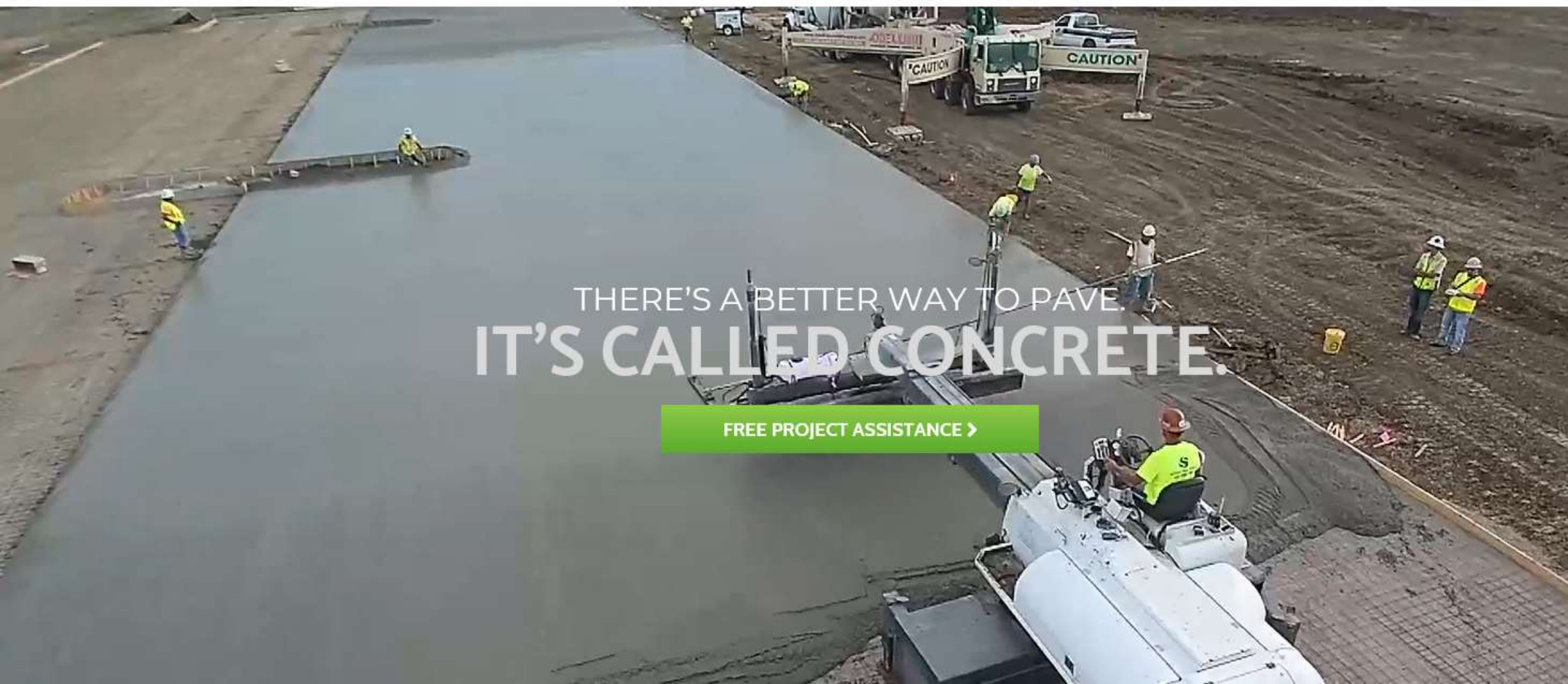


About the NDCC

- State trade association representing ready mixed concrete producers, concrete material suppliers and concrete pavement contractors
- Affiliated with National Ready Mixed Concrete Association and the American Concrete Pavement Association
- Mission: To Promote the Effective Use of Concrete Through Education and Advocacy
- Abundant supply of resources, including pavement design assistance and review

Pave Ahead

- No-fee, professional pavement design center
- Licensed Professional Engineering Team dedicated to helping owners:
 - Develop Pavement Designs and Pavement Options
 - Prepare Material Specifications
 - Provide Jointing Plan and Standard Details
 - Conduct Life Cycle Cost Analysis vs. Other Pavement Types
- No project is too large or small to qualify for assistance
- *Sponsored by the NRMCA and the RMC Research & Education Foundation*



THERE'S A BETTER WAY TO PAVE.
IT'S CALLED CONCRETE.

[FREE PROJECT ASSISTANCE >](#)



Paving Projects 

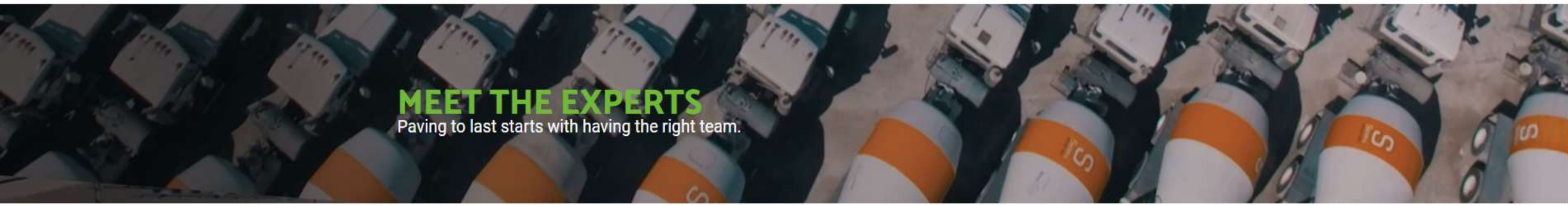
Meet the Experts

Resources

Education

Videos 

Design Center



MEET THE EXPERTS

Paving to last starts with having the right team.

TEAM LEAD



Brian Killingsworth, P.E.

Executive Vice President, Local Paving

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Don Clem, P.E.

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Find on page

Enter text to search

No results

<>Options

1. Choose your design.

You might be surprised at how innovative concrete paving can be. Your Paving Project Assistance team will walk you through the latest paving technologies step-by-step, including CAD jointing plans.

2. Select your concrete.

No two paving jobs are exactly alike. That's why no two forms of concrete are exactly alike, either. We have a team of experts designed to help you choose the unique form of concrete that will work best.

3. Gather your team.

The best-laid plans can fall flat if your project isn't executed properly. We'll help you find contractors and installers who will get the job done right—the first time.

4. Meet the experts.

We're a diverse group of design professional engineers, technicians, and LEED certified professionals who have one thing in common – we know a lot about concrete paving. So tell us what part of the country you're in, what you're looking for, and how we can help. Then get to know us – we're a pretty friendly bunch. (And we work for free).

Tell us about your project

What's the next project on your horizon?

How can we help things get off to a good start?

Take a moment to introduce yourself

First Name

Last Name

Title

Company

Address 1

Address 2

City

Home State

Home Zip Code

Email

Phone

REGISTER

PRIVACY POLICYCONTACT US

SIGN UP FOR THE DESIGN CENGO

Pave Ahead

- Successful Projects
 - Municipal Streets/Roads
 - Parking Lots
 - Intermodal Facilities
 - Roundabouts
 - Overlays
 - FDR and Stabilization

Pave Ahead

- Needed Information
 - Geotechnical Report
 - Site Plan
- Two to Three Weeks Lead Time
- Fully Detailed Design Report
- Local Engineer Must Stamp Design



September 10, 2018

Art Thompson
Executive Director
North Dakota Concrete Council
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RE: Concrete Pavement Design for the proposed US Foods Parking Lot and Truck Maintenance Facility, Bismarck, ND

Mr. Thompson:

The National Ready Mixed Concrete Association (NRMCA) is pleased to provide this concrete pavement design proposal for the above mentioned project. Specific information used to develop this concrete paving design was gathered from information provided by the Applicant. If the information provided is updated or changed, NRMCA will need to revisit our recommendations. Please contact us if you desire further assistance regarding this project.

Sincerely,
National Ready Mixed Concrete Association

A handwritten signature in blue ink, appearing to read "Ken Justice", written over a horizontal line.

Kenneth M. Justice, P.E.
Senior Director, Local Paving

PAVE AHEAD
DURABLE. SUSTAINABLE. CONCRETE.

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PavementDesigner.org

- Free, web-based pavement design tool
- Three-step design process used for: Roads; Overlays; Parking Lots; and Intermodal & Industrial Pavements
- Ability to choose from: Jointed Plain; Continually Reinforced; Roller Compacted; and Composite Pavements

Created by: American Concrete Pavement Association; Portland Cement Association; RMC Research & Education Foundation; and the RCC Pavement Council.



Home



New Design



My Designs



Resources



Support

LOGOUT

Select Project Type

PARKING

STREET

INTERMODAL

LOGOUT

1 PROJECT LEVEL

2 PAVEMENT STRUCTURE

3 SUMMARY

Help ?

Project Type: Street  Concrete

TRAFFIC

Select Spectrum Type ^

Residential
Collector
Minor Arterial
Major Arterial
ACI 330 Traffic Spectrum A
ACI 330 Traffic Spectrum B
ACI 330 Traffic Spectrum C
ACI 330 Traffic Spectrum D
ACI 330 Traffic Spectrum E
Custom Traffic Spectrum

Traffic Growth Rate

(% per year)

Directional Distribution

(%)

Design Lane Distribution

(%)

GLOBAL

Reliability

(%)

% of Slabs Cracked at End of Design Life

(%)

CALCULATED TRAFFIC RESULTS

Avg Trucks/Day in Design Lane over the Design Life

Total Trucks in Design Lane over the Design Life

TRAFFIC SUMMARY DETAILS

 Single		 Tandem		 Tridem	
AXLE LOAD (kips)	AXLES/ 1000 TRUCKS	AXLE LOAD (kips)	AXLES/ 1000 TRUCKS	AXLE LOAD (kips)	AXLES/ 1000 TRUCKS
24	0.07	24	0.07	24	0.07
24	1.6	24	1.6	24	1.6
22	2.6	22	2.6	22	2.6
20	6.63	20	6.63	20	6.63
18	16.61	18	16.61	18	16.61
16	23.88	16	23.88	16	23.88
14	47.76	14	47.76	14	47.76
12	116.76	12	116.76	12	116.76
10	142.7	10	142.7	10	142.7
8	233.6	8	233.6	8	233.6

< Change Design Type

Privacy Policy

Terms of Service

SAVE

PAVEMENT STRUCTURE

PavementDesigner.org

- Project designs can be printed, saved and shared
- Allows various traffic inputs for a wide range of vehicle counts and weight considerations
- Industry-approved design methods for all applications
- Ability to do side-by-side comparisons with alternative designs
- No software to purchase or install; or updates/patches to track

Available Resources

Questions?

Concrete Industry Management Program

NORTH CENTRAL REGION PROGRAM



CIM Program Overview

- ▶ Concrete Industry Management Program developed in 1996 at Middle Tennessee State University
- ▶ Four-year degree program focused on developing students with enhanced technical, communication and management skills for the concrete industry.
- ▶ Students graduate with a BS in CIM and a minor in either Business Administration and/or Marketing
- ▶ In 2012, CIM Program expanded to include an MBA in CIM at Middle Tennessee State University



CIM Program Overview

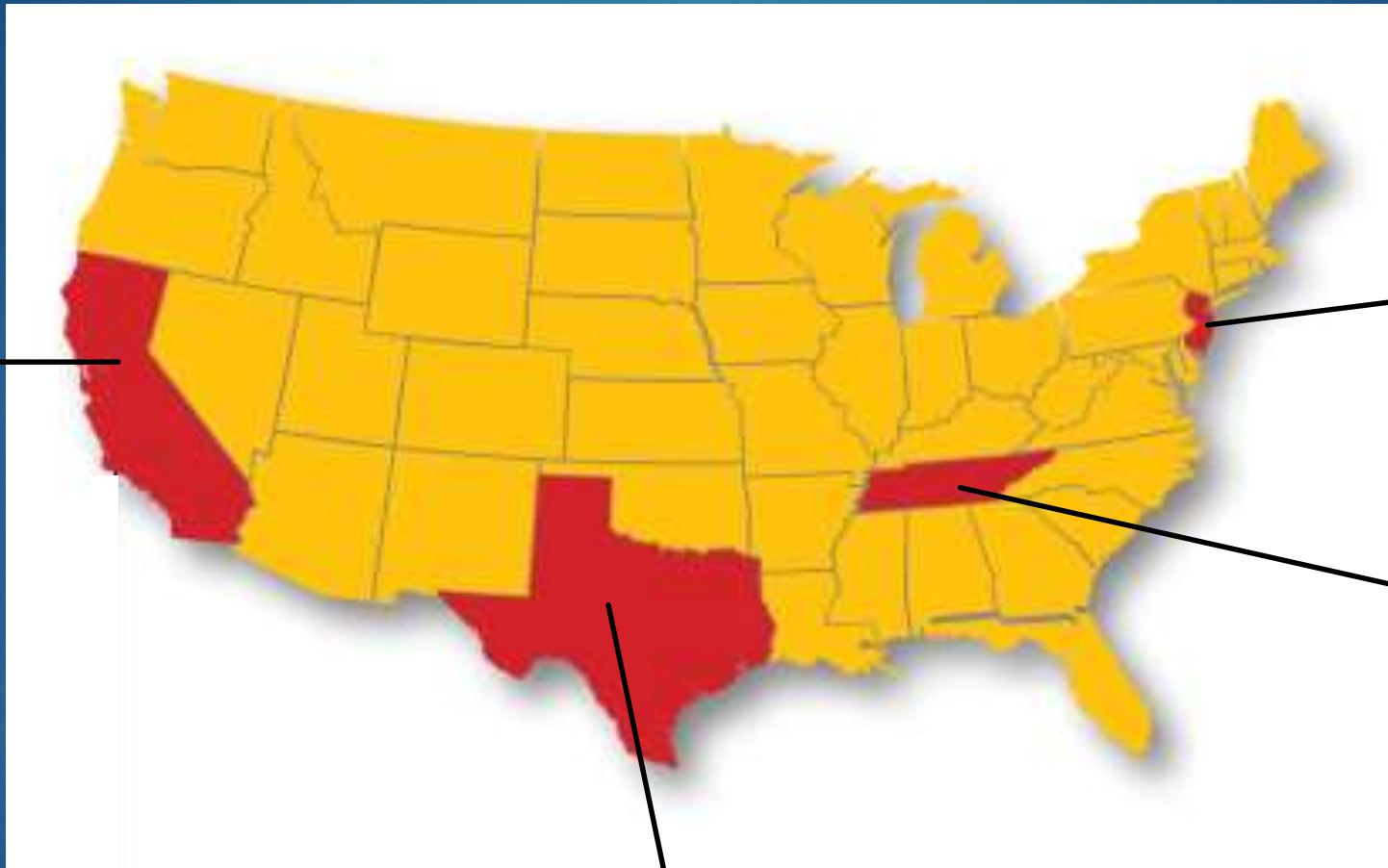
- ▶ To date, more than 1,800 students have graduated with a CIM Degree
- ▶ More than 82% are still working in the concrete industry; national average for all degrees is just 28% (US News & World Report).
- ▶ Nearly 100% placement rate for graduates

Visit: www.concretedegree.com for more information



CIM Program Locations

California State
University – Chico



New Jersey Institute of
Technology

Middle
Tennessee State
University

Texas State University

CIM Program Overview

- ▶ North Central Region has been a prime target for expanding the CIM program to a four-year university
- ▶ Two years ago, the North Central Region Patrons group (501c3) was formed to study the economic feasibility of funding a CIM program in the NCR
- ▶ Regional Patrons and National CIM Steering Committee commit to providing \$1M-plus over the first five years for program implementation; additional funding follows in years after.
- ▶ Site Selection Committee toured and interviewed 5 interested universities in the region
- ▶ Program was awarded to South Dakota State University



SDSU – Brookings, SD



- ▶ Founded in 1881
- ▶ The state's largest, most comprehensive higher-ed institution.
- ▶ Fall 2019 enrollment: 11,518
- ▶ Offers 82 majors, 35 specializations, 94 minors, 36 master's degree programs, 15 Ph.D. programs and two professional doctorates.
- ▶ Business and Management
 - Business Economics
- ▶ Jerome J. Lohr College of Engineering
 - Civil and Environmental Engineering
 - Construction and Operations Management

South Dakota State University



South Dakota State University

- ▶ Timothy Hostettler hired as the CIM Program Director
- ▶ CIM introduction courses began in Fall 2021
- ▶ Full program implementation in Fall 2022



CIM Program Support

- ▶ NCR is still looking for partners to donate their time, talent and treasure to supporting the CIM program
- ▶ Also need of companies/agencies to help promote the program to potential students; offer internships; plant/project tours; guest lecturers; donation of equipment/materials, etc.
- ▶ Many ways to get involved, just ask how



Contact Information

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Concrete Industry Management Program

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