#### UNIVERSITY ATHLETICS COMMITTEE Minutes

Thursday, December 12, 2024 (3:30 – 5:00 p.m.)

Zoom Meeting - https://virginiatech.zoom.us/j/88010840825

**Members Present:** Whit Babcock, Robin Queen, Dan Thorp, Alex Efird, Jen Irish, Phil Miskovic, Paul Knox, John Galbraith, Eric Martin, Emma Atkinson, Dirk Buengel, Frank Thompson, Brent Kremer, Amy Ingram, Rachel Holloway.

Absent: Chris Wise, Liesel Ritchie, Lisa Karlisch, Ken Stiles, Simon Allen, Travis Burns, Mark Feldman, Leanna House, Brad Whitney, Brad Wurthman, Joe Tront.
Guests: Sarah Anderson, Danny White, Reyna Gilbert-Lowry, Steve Rowson.

#### 1. Approval of Agenda.

- **2.** Electronic Approval of November 14, 2024 Meeting Minutes. Posted on the Governance web page (<u>http://www.governance.vt.edu</u>). Galbraith
- **3.** Faculty Athletics Representative Report: Jen Irish gave an update about the best practices meeting she attended. Academic best practices were discussed, and how to raise up the value of academics in the post-House v. NCAA era. Whit Babcock and Tim Sands met with Student Athlete Advisory Committee (SAAC) about the impacts from the House v. NCAA case. She would like the Missed Class Policy subcommittee to take a more proactive role in developing mitigation strategies, especially for the sports where competitions last multiple days in a row (e.g., golf, baseball, softball). Small tweaks may be proposed for approval.
- 4. Student Athlete Presentation: about Student Athlete Advisory Committee (SAAC) of about 500 student athletes that meet bi-weekly. Emma Atkinson (swimming) and Frank Thompson (tennis) made a presentation (attached). One topic of concern was that a student athletes' absence to attend a university scheduled sports event is counted against their missed class totals, which does not leave them a fair total of misses for sickness or other reasons. There was a concern about a very minor number of professors that were very strict about missed class.
- 5. Guest Presentation: Dr. Steve Rowson gave a presentation (attached) about helmet safety. His lab is a national leader in research on biomechanics, helmet evaluation and ratings, helmet covers and ratings, and safety. Started in 2003, as Virginia Tech was the first university to instrument helmets to understand head impacts and the forces that cause head injuries.
- 6. Guest Presentation: Senior Associate AD Reyna Gilbert-Lowry gave a report (attached) about the Fall ACC Meetings. The next meeting is in February and she will attend and then present a report.

Group

7. Athletic Director Update: Whit Babcock gave an update about the current state of the athletic program. His remarks follow a video interview with Bill Roth released on Dec. 6<sup>th</sup>. Whit gave an update on the current athletic teams and their successes. Whit has been meeting with coaches at least once per month to update them on the possible (but still unknown) implications of the House v. NCAA case whose outcome is expected in early April. He clarified that university academic budget cuts are not associated with the \$20.5 million per year the university is allowed to share with athletes starting July 1. Additional scholarships will be allowed but some roster reductions will also be imposed by the NCAA. He reported that football generates 75-80% of the programs' revenue, and gave multiple examples of how the costs to run our sports programs are more than made up by the income brought to Southwest Virginia, as well as other non-monetary values such as school pride, game day experience, and improved quality of life in our communities. Satisfaction among graduates of Virginia Tech is extremely high compared to most other institutions, and the two groups with the highest satisfaction are the Corps of Cadets and the student athlete graduates. Whit reported our Athletic budget to be about \$125 million per year, ranking us about 14<sup>th</sup> of 18 in the ACC, and 54<sup>th</sup> of the top 68 schools in Division I. We break even every year. The athletic program currently returns more value back to Virginia Tech students than the \$25 million received from student fees to support the athletic programs. We have the lowest student athletics fee in the ACC and it makes up the lowest proportion of any ACC budget.

#### 8. Adjourned at 5:04 pm.

#### Proposed Spring 2025 UAC Meeting Schedule

Jan 16<sup>th</sup> – 3:30 p.m. – 5:00 p.m. (In-person, location: 5<sup>th</sup> floor dining area, Lane Stadium north tower entrance)

Feb 13<sup>th</sup> – 3:30 p.m. – 5:00 p.m. (Virtual Only)

March 20<sup>th</sup> – 3:30 p.m. – 5:00 p.m. (In-person, location: 5<sup>th</sup> floor dining area, Lane Stadium north tower entrance)

April 17th - 3:30 p.m. - 5:00 p.m. (Virtual Only)

May 7th (if needed) – 3:30 p.m. – 5:00 p.m. (In-person, location: 5<sup>th</sup> floor dining area, Lane Stadium north tower entrance)



# Concussion Research in the Virginia Tech Helmet Lab

#### Steve Rowson, PhD

Biomedical Engineering and Mechanics Director, Helmet Lab Virginia Tech

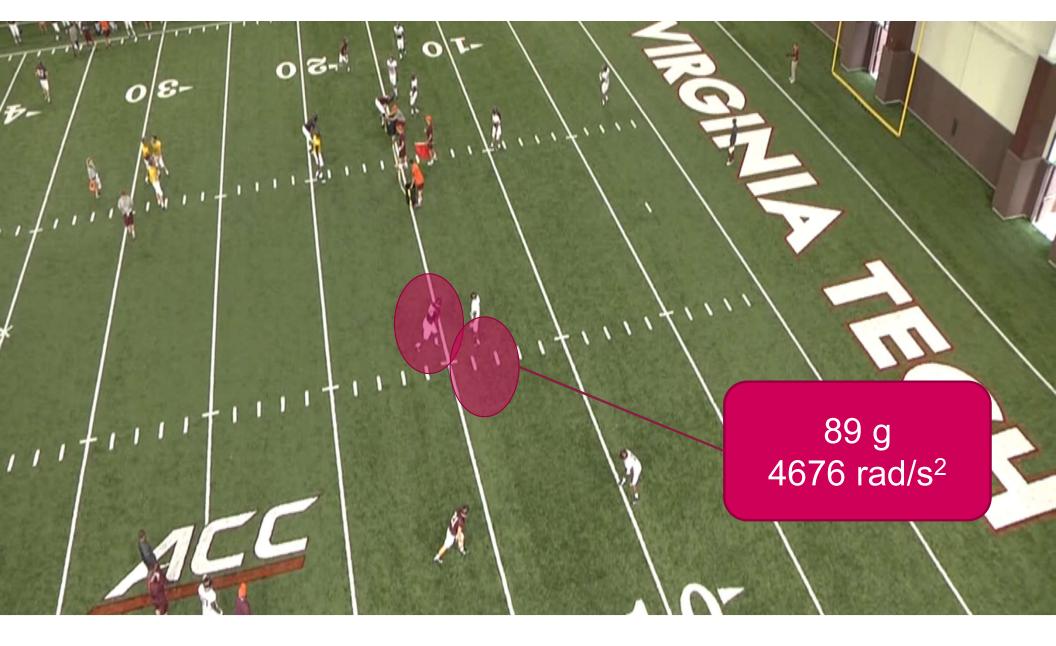
# Virginia Tech Helmet Lab

#### **Injury biomechanics research**

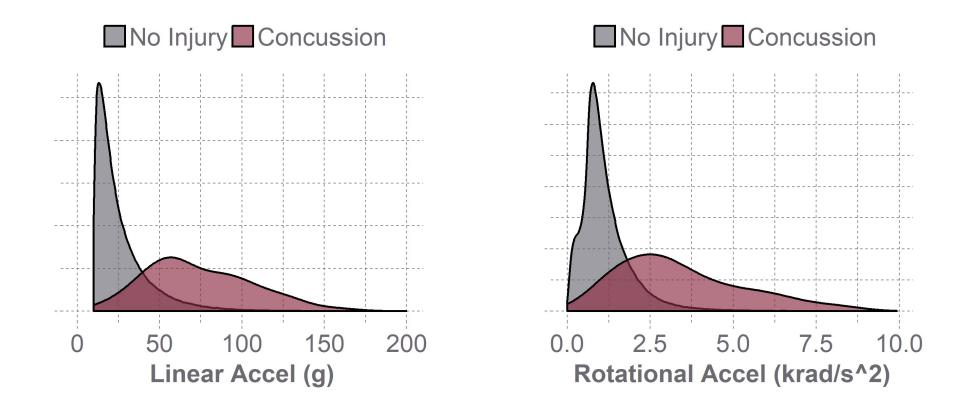
- Our research focuses on quantifying concussion biomechanics
- We collect data from directly from higher-risk athletes
- We translate those findings to develop laboratory tests that can be used to improve helmets

Helmet-mounted accelerometer arrays, clinical test battery





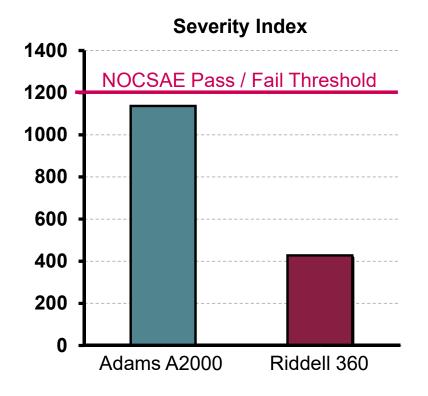
# Concussion vs. no injury

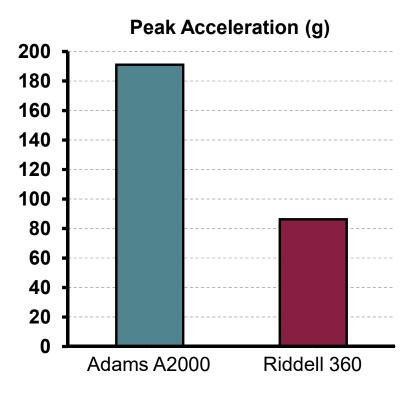


# **"What helmets should we buy?"** - Lester Karlin, VT Equipment Manager

42

# Helmet comparison: 60 inch drop (top)







# Virginia Tech Helmet Ratings

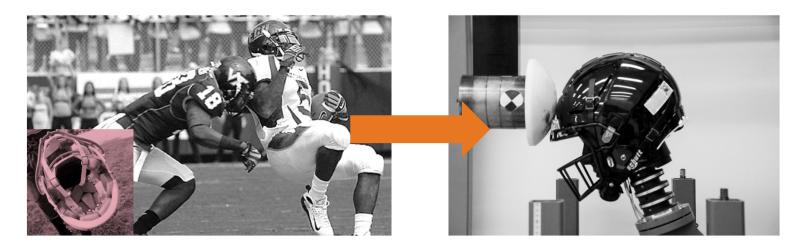
# The helmet ratings program has 2 primary objectives:

- 1. To inform consumers of relative concussion risk differences between helmets
- 2. Provide manufacturers with a design tool to optimize helmet design to best reduce concussion risk in the real world

#### vt.edu/helmet

## General helmet evaluation approach

- Characterize sport-specific head impact exposure and concussion risk in the real-world
- Translate and map impact scenarios to sport-specific impact test equipment in the lab
- Evaluate helmets over a range of impact locations and severities; summarize results into an overall rating



# Helmet impact approach

#### Pendulum impactor

• High repeatability

#### Headform assembly

- Blue NOCSAE headform
- 50<sup>th</sup> male Hybrid III neck
- 16 kg sliding torso mass

#### Instrumentation

- 3 linear accelerometers
- 3 angular rate sensors

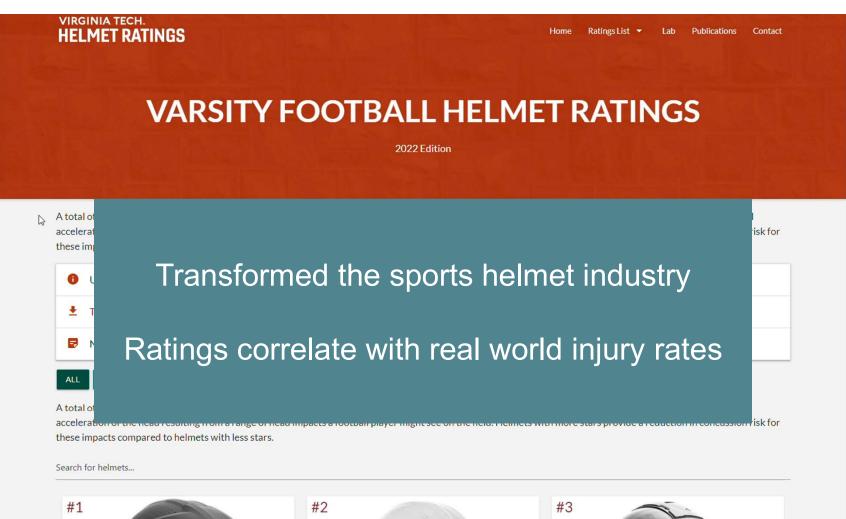




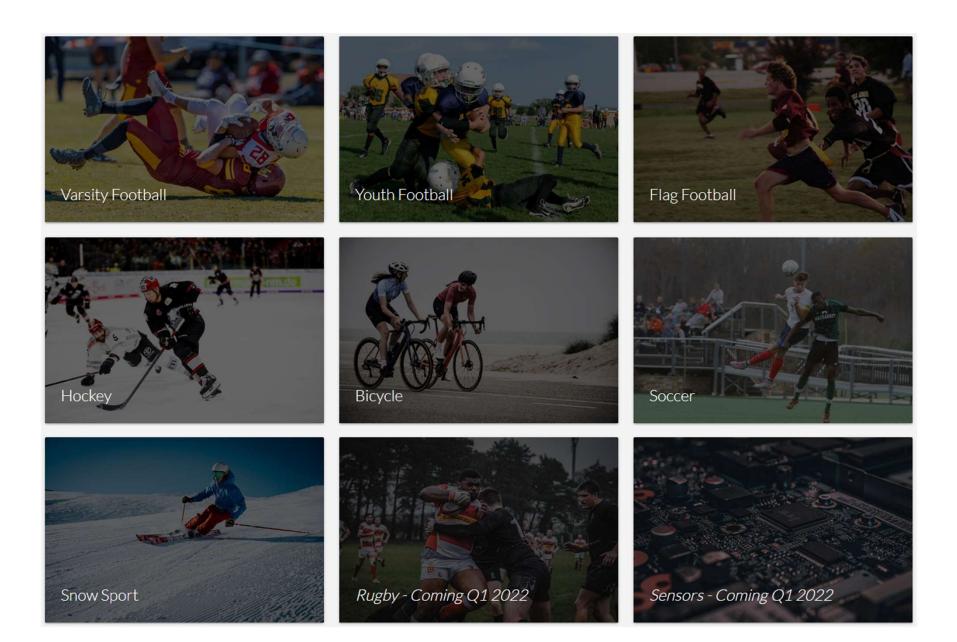
facemasks

rigid, rounded \_ impactor face

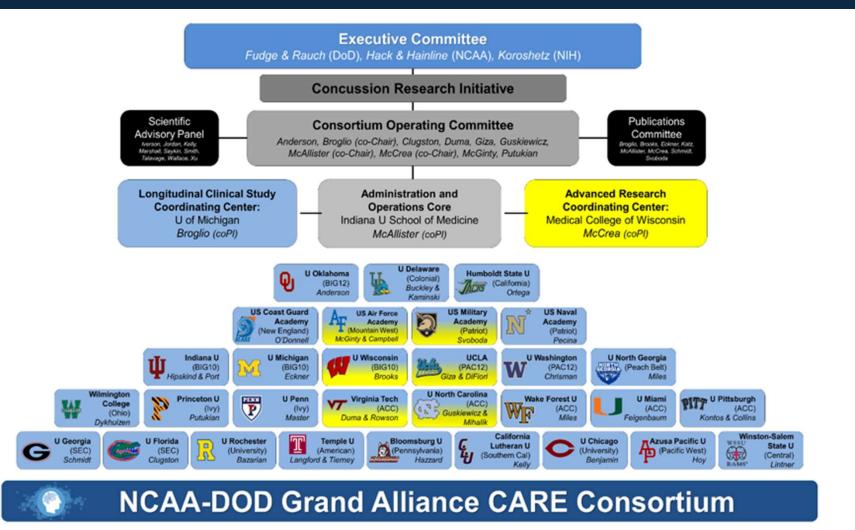
Force direction varied with respect to headform CG







#### NCAA-DOD Grand Alliance 2014





#### Preseason football practices

## Rule changes – NCAA preseason practice

impacts																																					
ac	Αι	Jgi	ust						Se	ept	em	be	r			0	cto	be	r					No	ve	m	oer	•			De	ece	eml	ber			
du		1	2	3	4	5	6						1	2	3							1				1	2	3	4	5					1	2	3
2	7	8	9	10	11	12	13		4	5	6	7	8	9	10	2	3	4	5	6	7	8	)	6	7	8	9	10	11	12	4	5	6	7	8	9	10
p	14	15	16	17	18	19	20		1	12	13	14	15	16	17	9	10	11	12	13	14	15	1	13	14	15	16	17	18	19	11	12	13	14	15	16	17
ead	21	22	23	24	25	26	27	ŕ	8	19	20	21	22	23	24	16	17	18	19	20	21	22	2	20	21	22	23	24	25	26	18	19	20	21	22	23	24
Ĭ	28	29	30	31				2	25	26	27	28	29	30		23	24	25	26	27	28	29	2	27	28	29	30				25	26	27	28	29	30	31
																30	31																				
S		1	2	3	4	5	6						1	2	3							1				1	2	3	4	5				[	1	2	3
on	7	8	9	10	11	12	13		4	5	6	7	8	9	10	2	3	4	5	6	7	8	10	6	7	8	9	10	11	12	4	5	6	7	8	9	10
S.	14	15	16	17	18	19	20	-	1	12	13	14	15	16	17	9	10	11	12	13	14	15	1	3	14	15	16	17	18	19	11	12	13	14	15	16	17
S	21	22	23	24	25	26	27	-	8	19	20	21	22	23	24	16	17	18	19	20	21	22	2	20	21	22	23	24	25	26	18	19	20	21	22	23	24
CU	28	29	30	31				2	.5	26	27	28	29	30		23	24	25	26	27	28	29	2	27	28	29	30				25	26	27	28	29	30	31
2																30	31																				
<b>8</b>	s	М	т	W	т	F	S		S	М	т	W	т	F	S	S	М	т	W	т	F	s	:	S	М	т	W	т	F	S	S	М	т	w	т	F	S



#### In-ear sensors for women's lacrosse

Average impact around 18 g

### Virginia Tech Women's Soccer Team



#### **Concussion History**

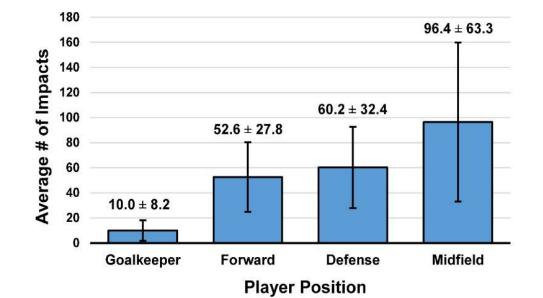
# Previous Concussions	0	≥ 1	≥ 2
# Players (26 total)	15	11	4

#### Impact Mechanisms





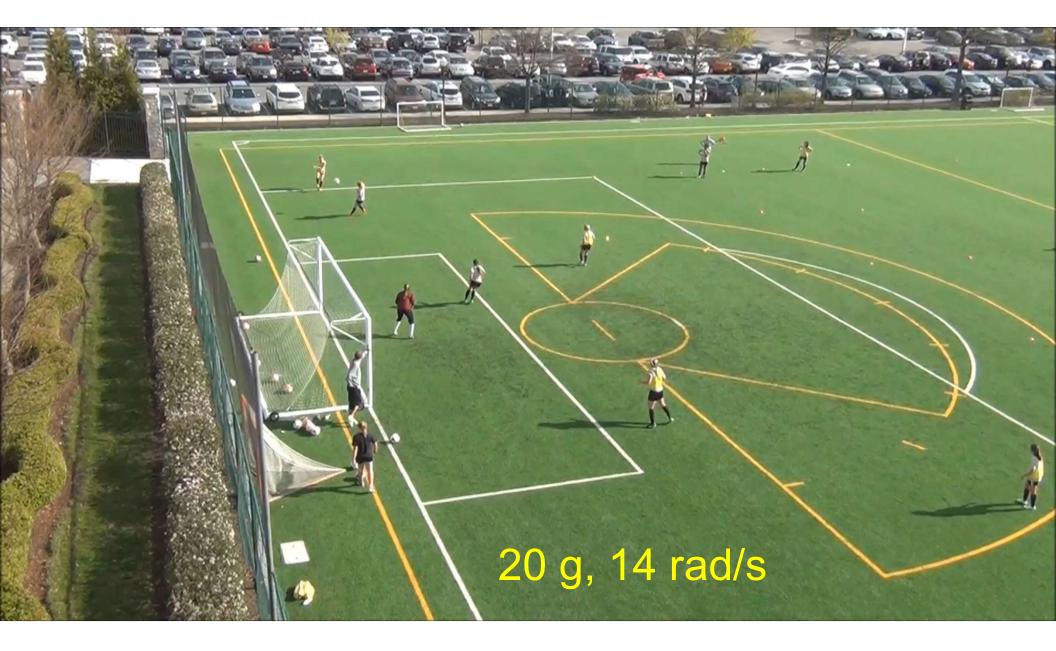
#### 1703 Impacts on Video



	Player Exposures	Impacts	Average # of Impacts / Player
Practices	585	988	1.7
Games	331	715	2.1
Total	916	1703	1.9







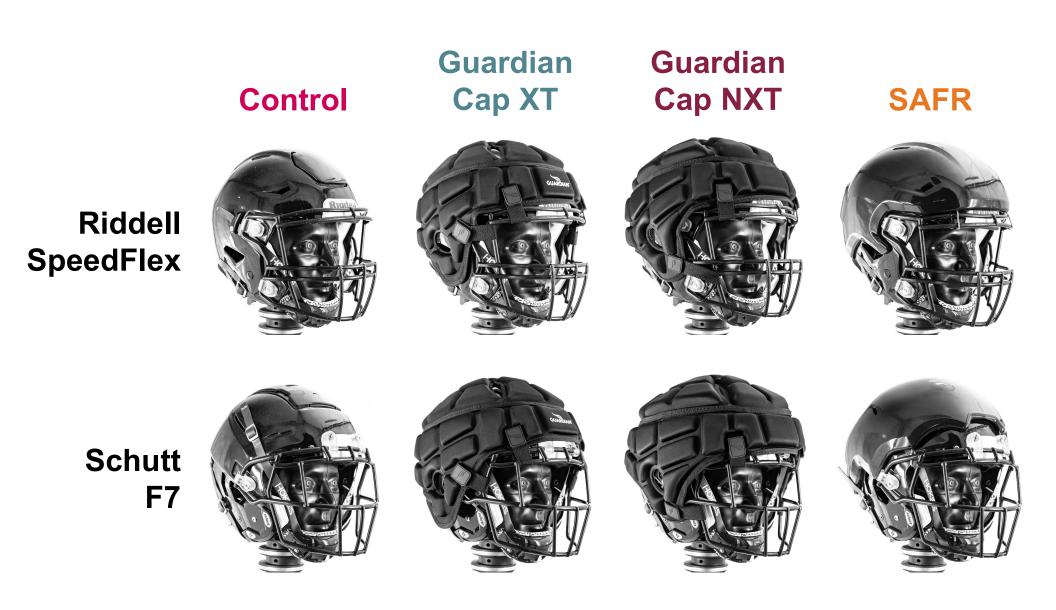
## Face shields for VT football helmets



# Helmet shell add-ons

- We tested currently available helmet shell add-ons using our helmet evaluation method
- Guardian Caps
  - XT
  - NXT (NFL version)
- SAFR





# Reduction with add-on on both helmets

15

10



Control Guardian XT 40% ProTech 69%

80%

5

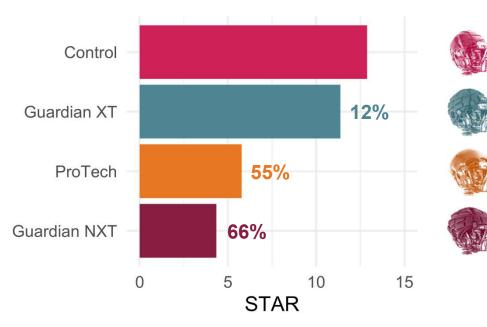
STAR

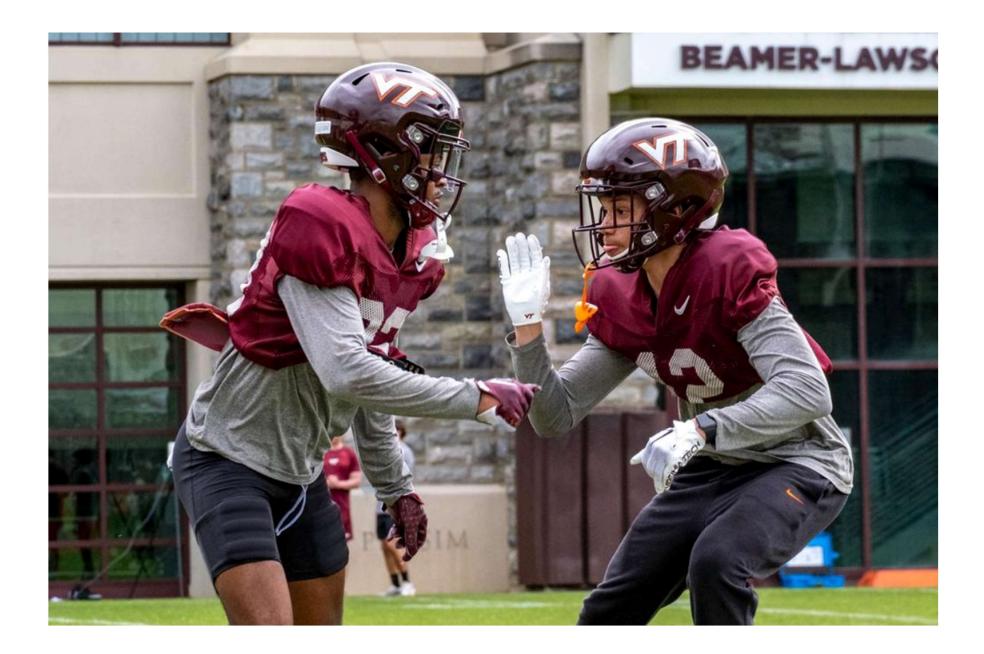
0

Guardian NXT

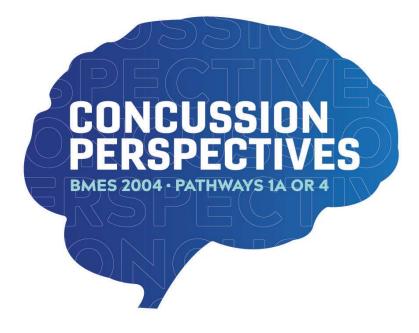
#### **Riddell SpeedFlex**

#### Schutt F7





# Undergraduate classes on the VT concussion research







# Concussion Research in the Virginia Tech Helmet Lab

#### Steve Rowson, PhD

*Biomedical Engineering and Mechanics Director, Helmet Lab Virginia Tech* 



# REYNA GILBERT-LOWRY EXECUTIVE ASSOCIATE A.D/ SENIOR WOMAN ADMINISTRATOR(SWA)

ACC FALL MEETINGS RECAP



# ACC PRIORITIES REVENUE GENERATION ACC/ESPN PARTNERSHIP NATIONAL REPUTATION





# • ACC STUDENT-ATHLETE ADVISORY COMMITTEE

- MENTAL HEALTH PROPOSAL
- **O CONFERENCE-WIDE COMMUNITY SERVICE PROJECT**
- INCREASE COMMUNICATION BETWEEN STUDENT-ATHLETES WITHIN THE CONFERENCE
- PROVIDE EDUCATION TO STUDENT-ATHLETES ABOUT THE CURRENT LANDSCAPE OF COLLEGE ATHLETICS
- AMPLIFY THE STUDENT-ATHLETE VOICE BY CONNECTING STUDENT-ATHLETES TO LEGISLATORS

ACC FALL MEETINGS RECAP 24



• LEGAL AND GOVERNANCE UPDATE • HOUSE SETTLEMENT TIMELINE DECEMBER 17, 2024 - ALLOCATION ESTIMATE AVAILABLE **TO ATHLETES VIA SETTLEMENT WEBSITE** • NOTICE PROCESS ATHLETES' ATTORNEYS SET DAMAGES ALLOCATIONS (ATHLETES ARE REPRESENTED BY PLAINTIFF'S **ATTORNEYS**) SUGGESTED COMMUNICATION PLAN TO FORMER/CURRENT SA'S ROSTER LIMITS

ACC FALL MEETINGS RECAP 24

