



DPE  
SUMMIT

developer  
productivity  
engineering

your unfair  
competitive  
advantage



- 20%

0.1%



# Cognitive Science

The background features a series of overlapping, wavy wireframe surfaces in a teal color. These surfaces create a sense of depth and movement, resembling a stylized landscape or data visualization. The lines are thin and form a grid-like pattern that follows the contours of the waves.

# Industry Surveys

*“Notably, developers say they spend the same amount of time waiting for builds and tests as they do writing new code.”*

*Github Survey 2023 - Impact on the developer experience*

The background features a series of overlapping, wavy wireframe surfaces in a teal color. These surfaces create a sense of depth and movement, resembling a stylized landscape or a series of data waves. The lines are thin and form a grid pattern that follows the contours of the waves.

Studies by the **big** four

# Unlocking Developer Productivity: Human-Powered Success



**BRIAN HOUCK**  
Principal Productivity Engineer

The background features a series of overlapping, wavy wireframe surfaces in a teal color. These surfaces create a sense of depth and movement, resembling a stylized landscape or a complex data visualization. The lines are thin and form a grid-like pattern that follows the contours of the waves.

Other

Industries



The background features a series of overlapping, wavy wireframe surfaces in a teal color, creating a 3D effect against a dark blue gradient. The surfaces are composed of a grid of lines that form a mesh, with the perspective changing as the waves rise and fall.

Knife usage for meat processing

Really?



The background features a series of overlapping, wavy, grid-like patterns in shades of teal and white. These patterns create a sense of depth and movement, resembling a digital or geometric landscape. The overall color palette is a gradient of teal, from a darker shade at the top to a lighter, almost white shade at the bottom.

**Sharpness**

**Sharpness & Operators**

**Build Time, Feedback  
Quality & Devs**

Fatigue and RSI

Cognitive Fatigue

Workspace Safety  
(Lacerations, Slips)

n/a

Throughput

Throughput

Cut quality and product  
presentation

Software Quality

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# Measuring Sharpness



## CLASSIFICATION OF SHARPNESS

Description	edge apex thickness		
	Micron	BESS	REST
<b>Dull</b> The edge reflects visible light.	> 1	> 500	> 5N
<b>Working edge</b> Fingernail test positive. Slices print paper and newspaper.	0.6-0.8	300-400	3-4N
<b>Sharp</b> E.g. quality cutlery out of the box. Slices a sales docket.	~ 0.5	250-300	2-3N
<b>Very sharp</b> E.g. utility knife blade (new). The edge doesn't reflect visible light.	0.3-0.4	150-200	1.4-1.8N
<b>Shaving sharp</b> (see all gradations below) Whittles soft wood.	0.3	160	1.5N
<b>Wickedly sharp</b> Edges less than thickness of a human hair cuticle of 0.3 micron; shaves against the skin.	< 0.3	< 150	
<b>Nuts sharp</b> Filleting/shaving print paper.	0.2-0.3	100-150	
<b>Scary sharp</b> Cuts cigarette rolling paper vertically. Hair violin sign.	0.2	100-110	< 1N
<b>Crazy sharp</b>	< 0.2	< 90	
<b>Insane sharp</b> Cuts a free hanging hair.	0.1-0.15	50-80	0.5-0.6N
<b>Razor sharp</b> Sharpness of the DE shaving razor Gillette. Splits hair.	<= 0.1	<= 50	0.3-0.4N
<b>Sharper than razor</b> Sharpness of the DE shaving razor Feather. Whittles hair. Cuts cigarette rolling paper horizontally.	~ 0.05	<= 30	<= 0.2N

The background features a series of overlapping, wavy wireframe surfaces in a teal color. These surfaces are composed of a grid of lines that create a 3D effect, resembling a stylized landscape or a series of hills. The lighting is soft, highlighting the peaks and valleys of the wireframe structures.

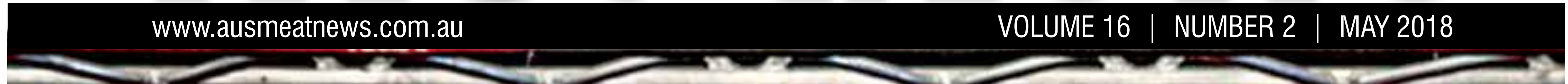
Sharpness is a shared value, but ...



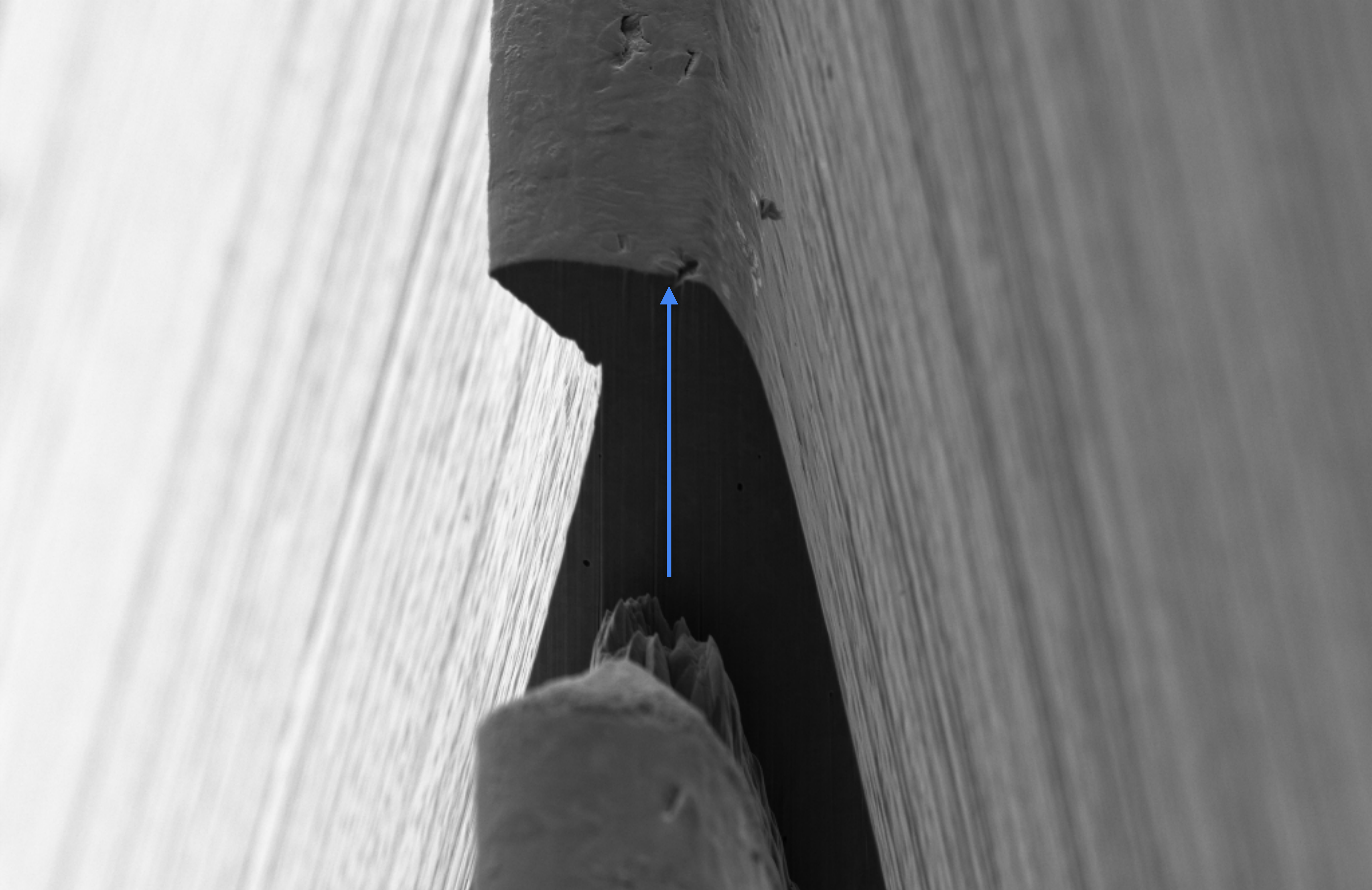
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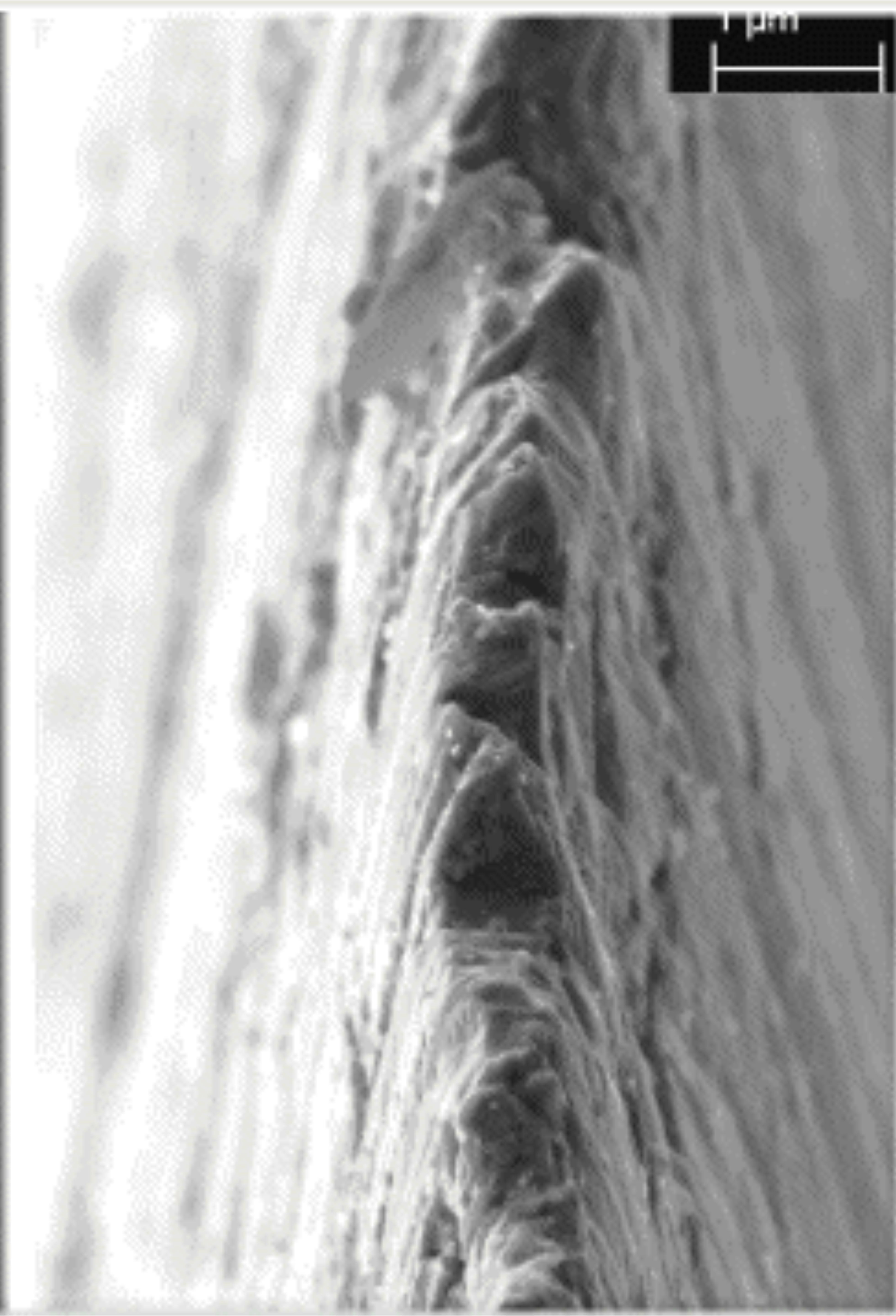
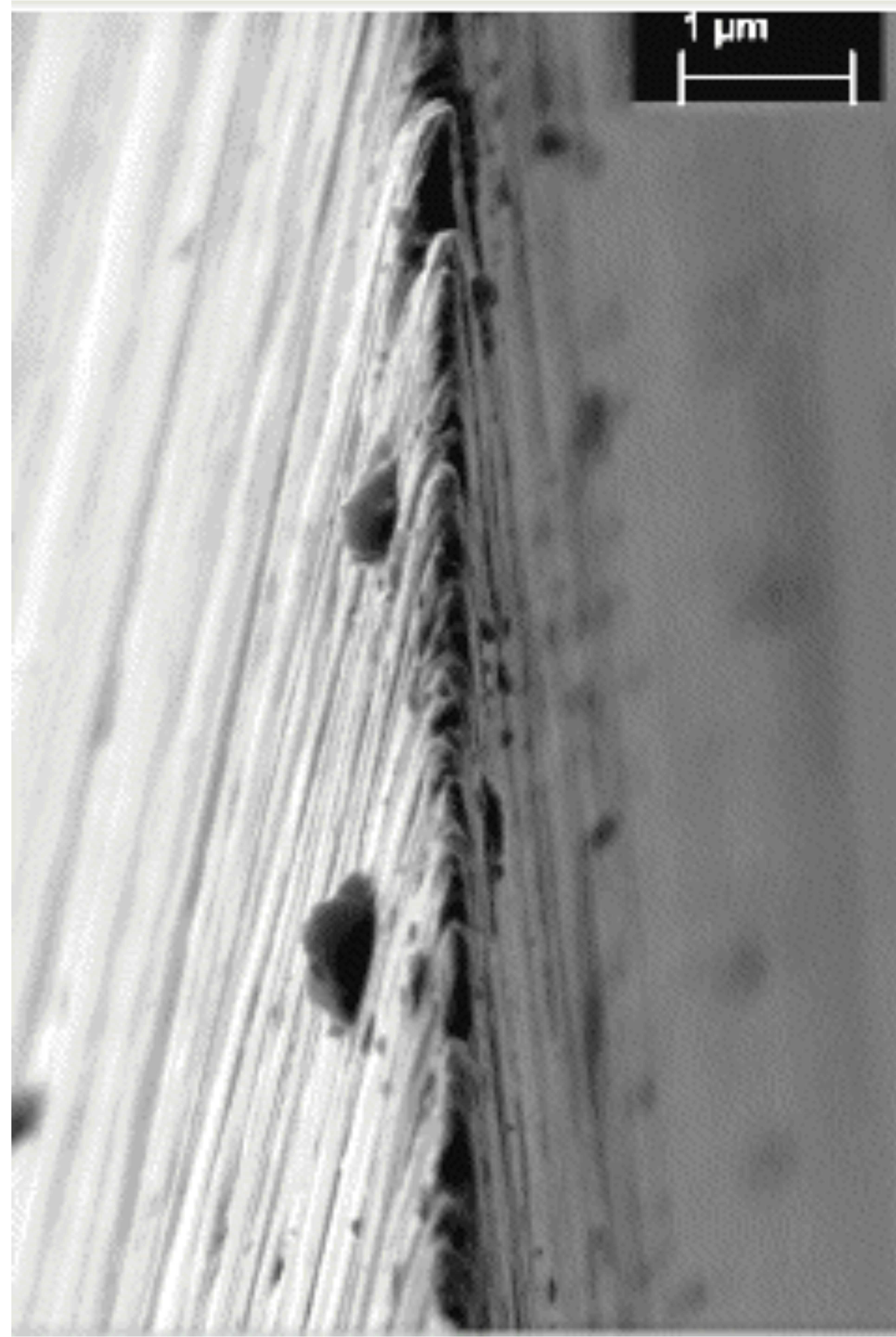


<b>Sharpness Score*** by Operator Skill level</b>		
Knife ID	Grade 3* operator average sharpness	Grade 5** operator average sharpness
Brand 2a	343	187
Brand 3 b	555	361



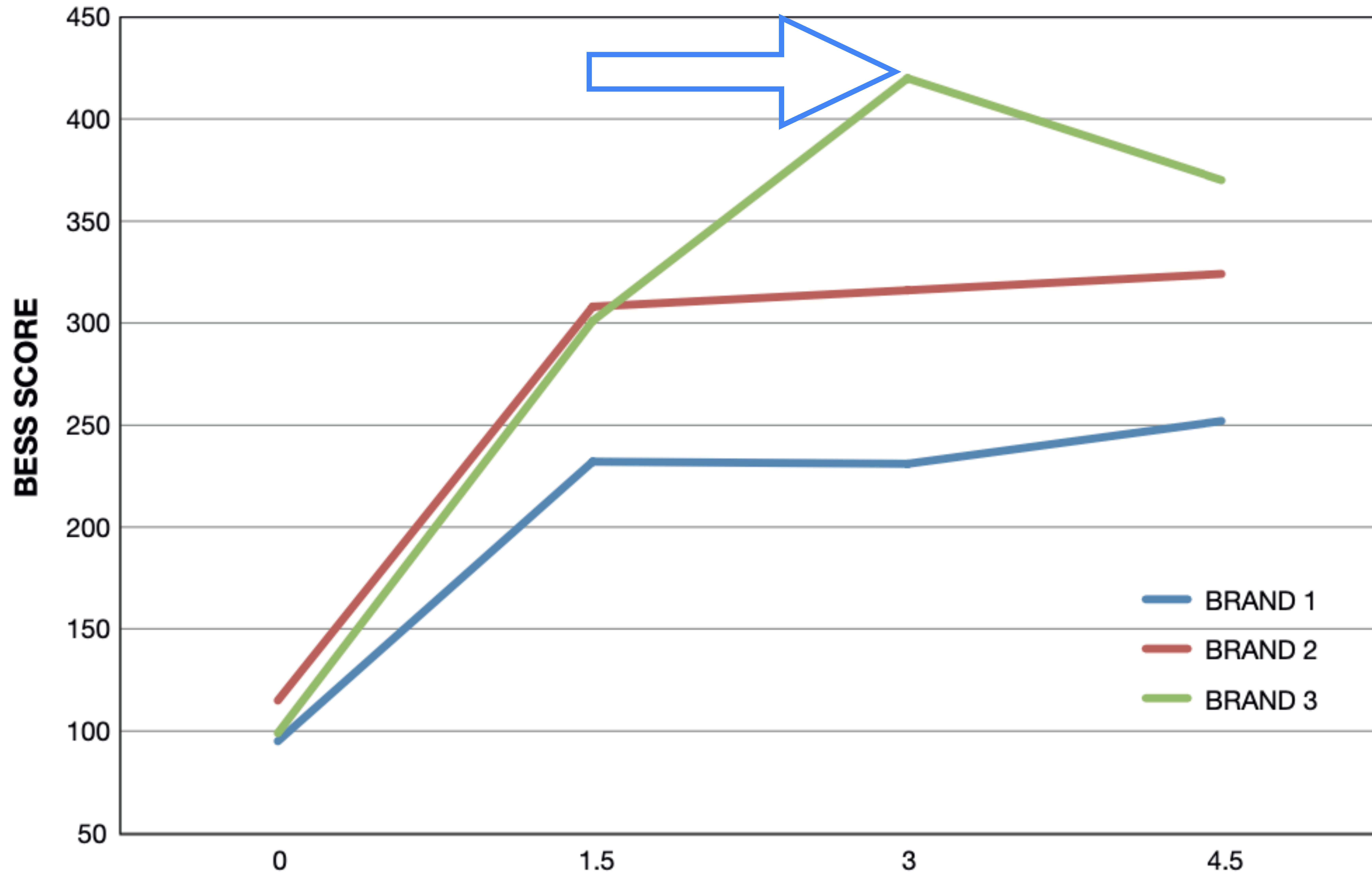
UWO CrossBeam      EHT = 5.00 kV      Signal A = SE2      Date :1 Jun 2017      2  $\mu$ m  
Mag = 2.00 K X      WD = 6.5 mm      FIB Imaging = SEM      Time :11:09:32      







# BESS SCORE VS TIME (HOURS)







## **Fluted (scalloped Blade) vs Plain Blade**

Average Sharpness\*

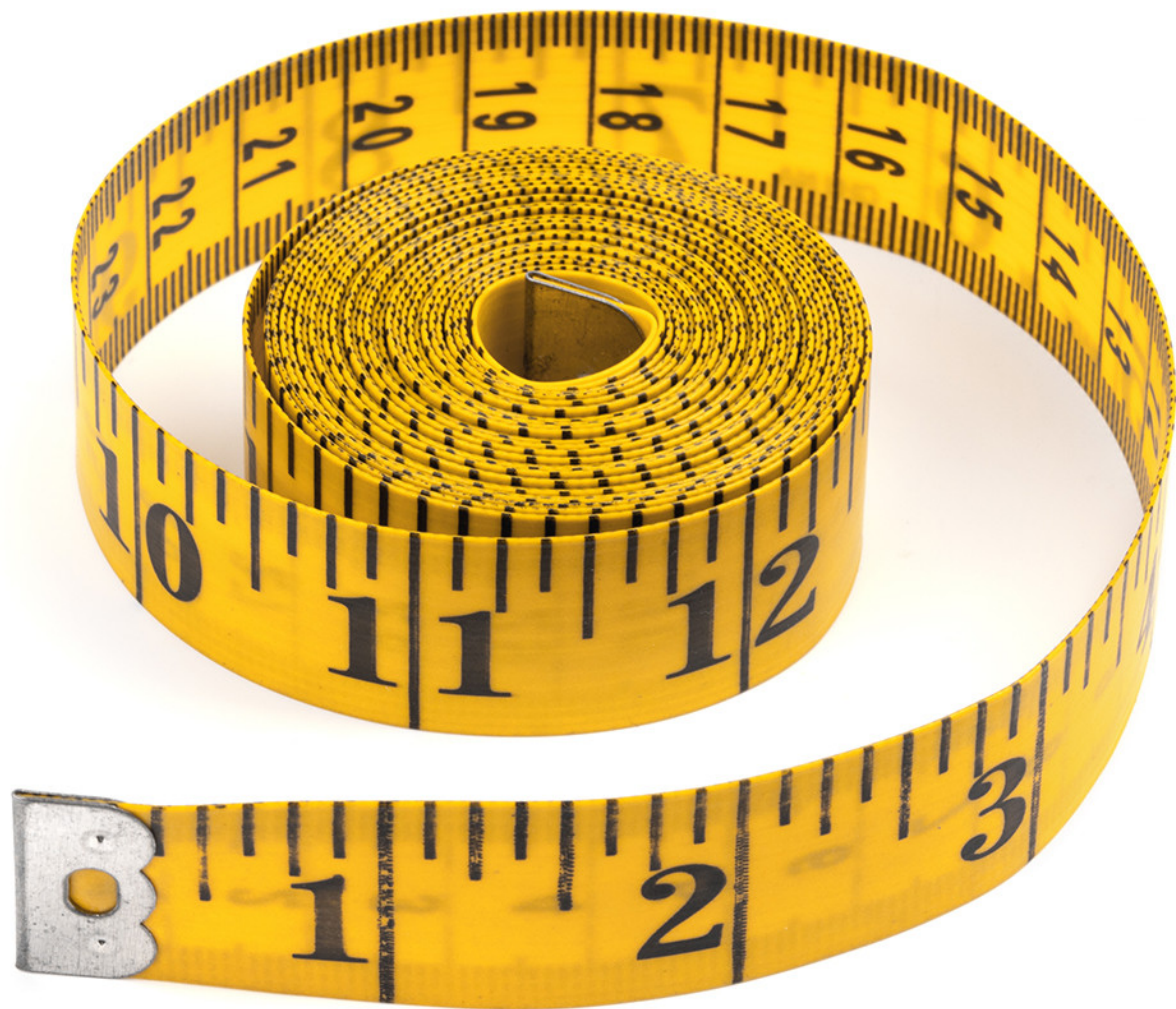
Fluted  
363

Plain  
276

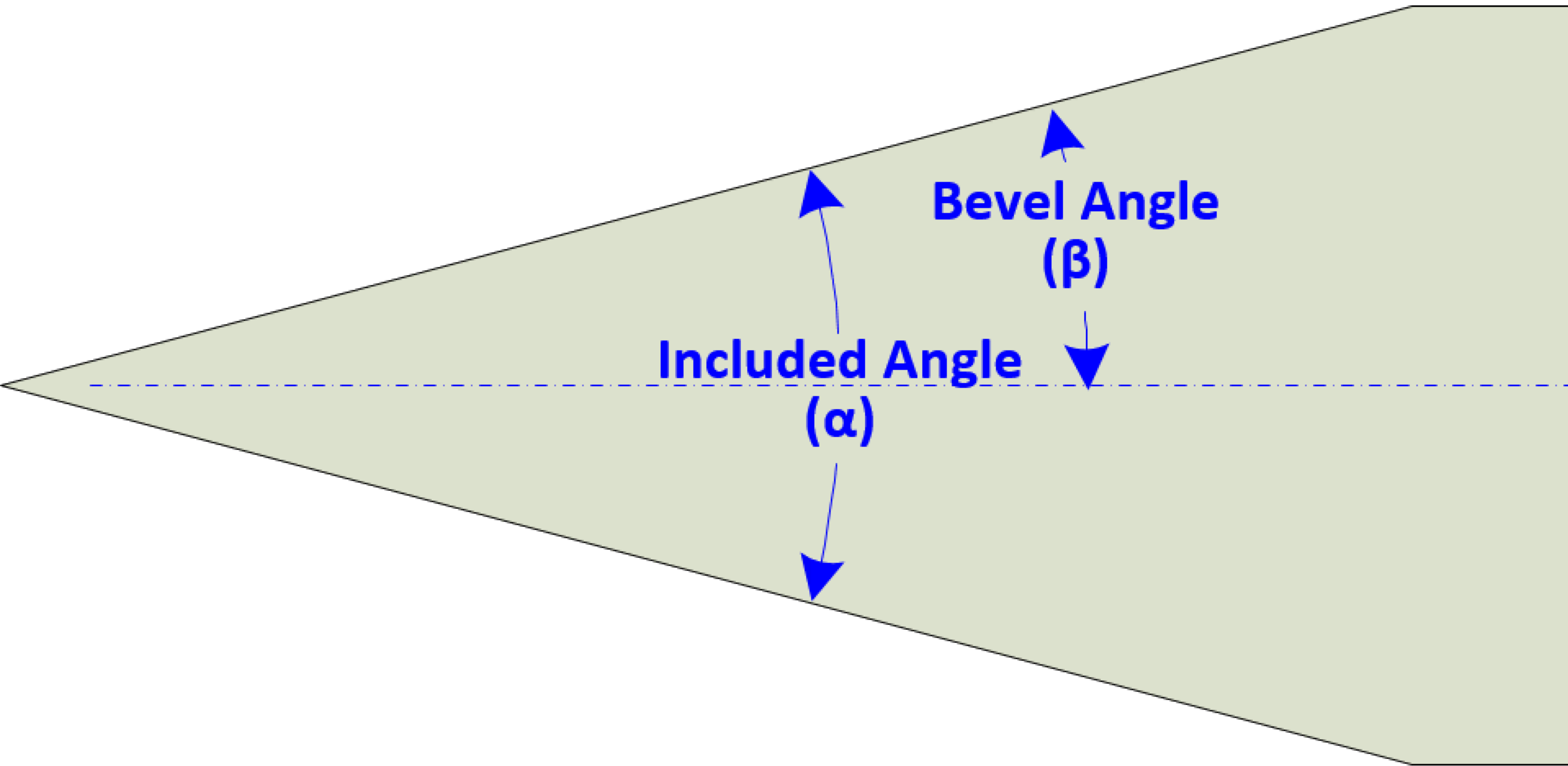
\* This is the sum of the sharpness scores divided by the number of measurements.

The image features a dark teal background with a complex, layered wireframe structure. The structure consists of multiple overlapping, undulating surfaces that resemble a landscape of hills or a series of data points connected by lines. The lines are thin and light teal, creating a mesh-like effect. The overall composition is abstract and modern. Centered in the middle of the image is the text "Reduce the noise" in a clean, white, sans-serif font.

Reduce the noise



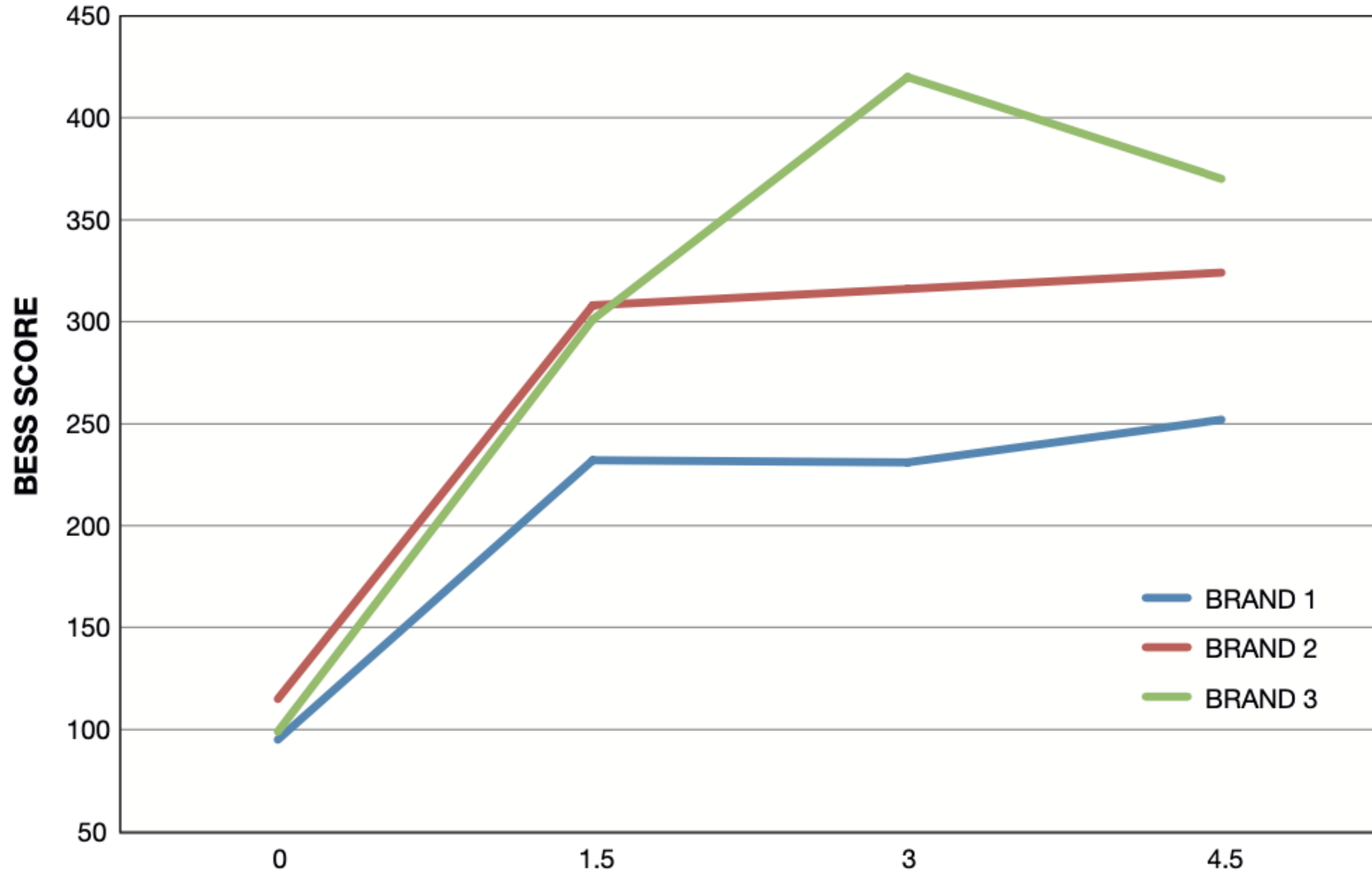




**Bevel Angle  
( $\beta$ )**

**Included Angle  
( $\alpha$ )**

# BESS SCORE VS TIME (HOURS)

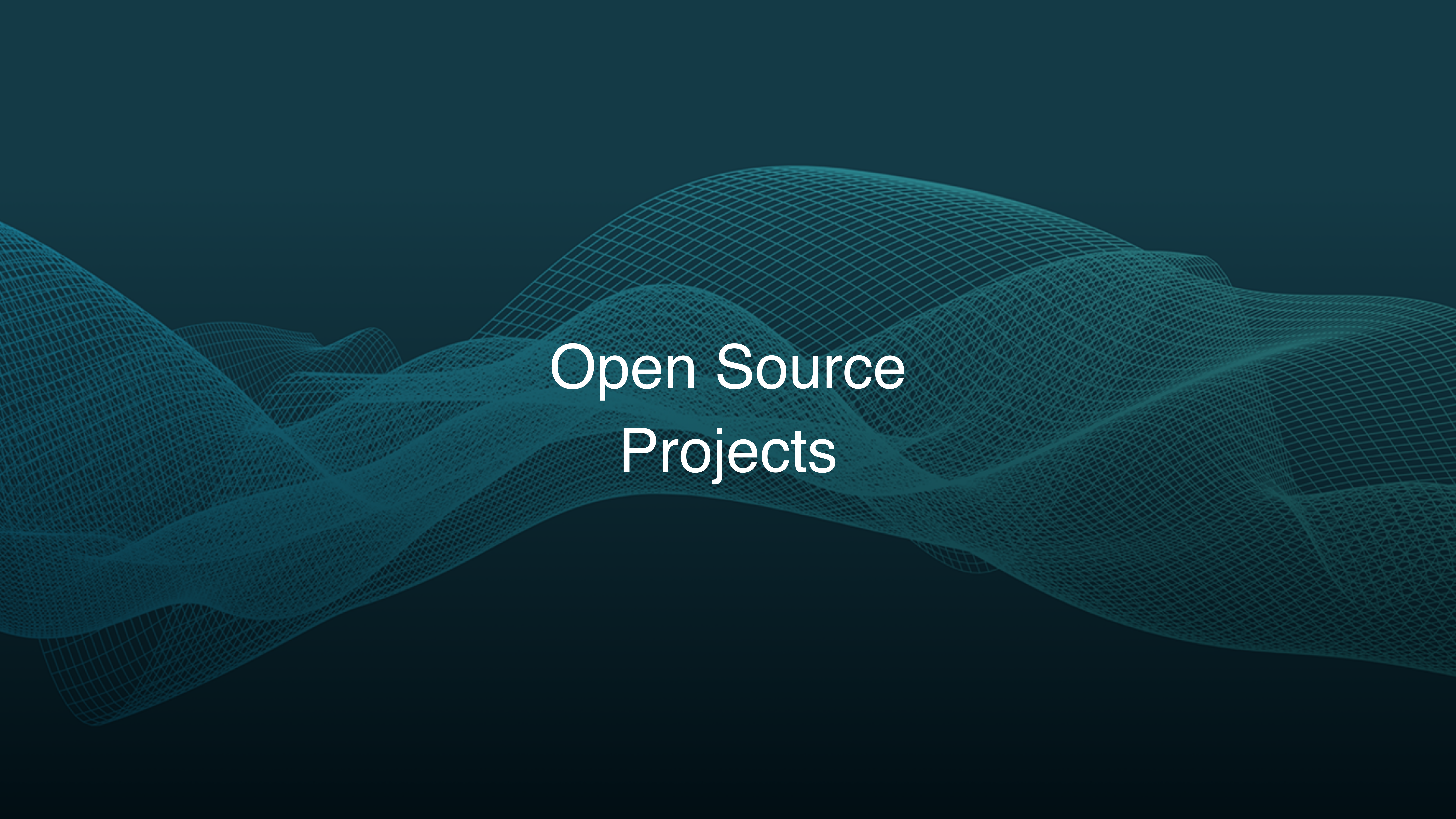


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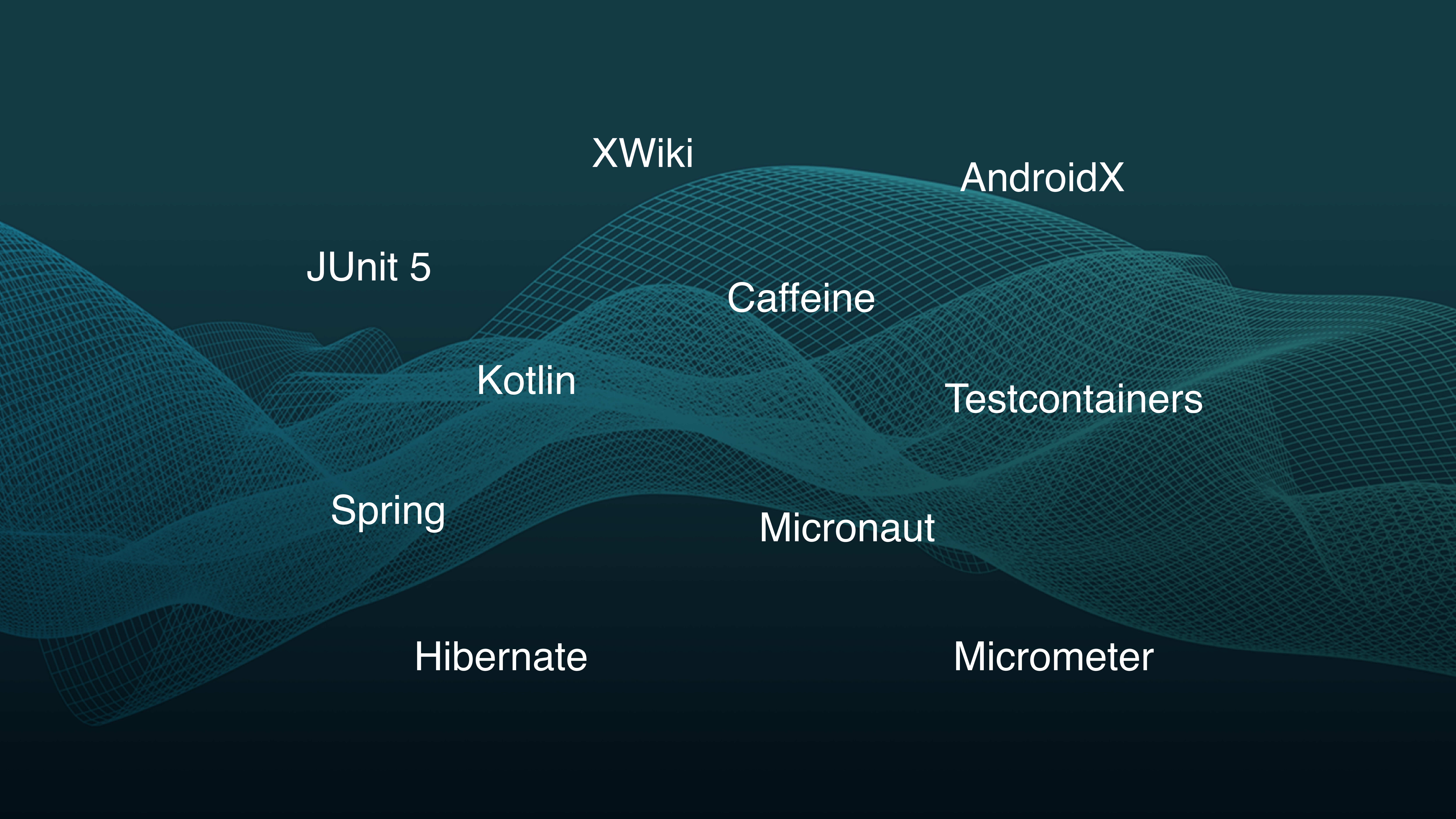
# Announcement





The background features a series of overlapping, wavy, wireframe-like structures in a teal color. These structures resemble a grid or mesh that has been distorted into fluid, undulating shapes, creating a sense of depth and movement. The overall aesthetic is modern and technical.

# Open Source Projects



XWiki

AndroidX

JUnit 5

Caffeine

Kotlin

Testcontainers

Spring

Micronaut

Hibernate

Micrometer

The image features a dark teal background with a complex, abstract wireframe pattern. The pattern consists of numerous overlapping, wavy, and undulating surfaces that create a sense of depth and movement, resembling a digital landscape or a series of interconnected data points. The lines are thin and light teal, contrasting with the darker background. In the center of the image, the words "Our Future" are written in a clean, white, sans-serif font. The text is centered both horizontally and vertically, serving as the focal point of the composition.

Our Future

*“Give me six hours to chop down a tree and I will spend the first four sharpening the axe.”*

*Abraham Lincoln*

The background features a series of overlapping, wavy, grid-like patterns in shades of teal and white. These patterns create a sense of depth and movement, resembling a digital or architectural structure. The overall color palette is a gradient of teal, from a darker shade at the top to a lighter, almost white shade at the bottom.

**Thank You!**