

# Bowlology

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## Kingpin Associate 900

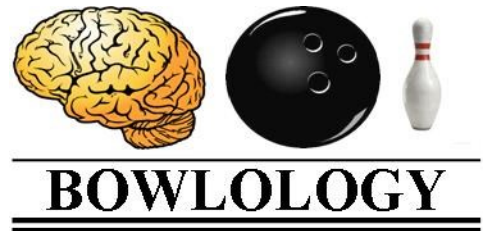
My name is Josh Hyde and this course is for individuals who have idea about the sport of bowling. This course discusses multiple aspects of the sport of bowling. Each student will have an opportunity to specialize in a area of bowling. This course requires deep though into the sport of bowling. Not every bowler can be a Walter Ray Williams Jr., but they can specialize in an area. This course teaches the students on how to be Bowlologist in each area of bowling. Students have the opportunity to take the Master of the Lanes exam. A score of 720 out of 900 is considered a Bowlologist. Students must complete a project involving their specialty area. Master of the Lanes exam will count towards 50% of their grade with 40% from the project. Students will have access to the professor the course, JoshHydeBowling@gmail.com for questions and conversation.

### Examples of Projects

- Analysis of sports shots and house shots. Which is better and Why?
- Analysis of string pins and free fall. Which is better and Why?
- Two handed vs One Handed bowling styles
- Urethane vs Resin Reactive
- What is the best major and why?
- Synthetic vs Natural wood lane. What the advantages or disadvantages of each?



When a student passes with an 80% on the KingPin Exam, they will receive an email from Josh Hyde asking whether they want to be an instructor for the Bowlology Academy. The King Pin 900 Associate Course is the top level at the Bowlology Academy. These individuals have studied the sport of bowling. In the past, these people were like John Jowdy & Chuck Pezzano. John Jowdy knew how to work with a player and get them back to striking. Chuck Pezzano knew the history of the sport and was one of the founding members of the PBA.



*KingPin*



*Associate*



Mission: To Expand  
Bowling Knowledge for Bowlers, Coaches,  
Pro-Shop Operators in an innovative way.

### **Bowlologist Profile & Accomplishments**

5- 300 Games  
837 High Series  
6-800 Series  
PBA Hall of Fame Committee Member since 2014  
USBC Hall of Fame Committee Member since 2020  
Lifetime PBA Member  
2015 TOC Media Kit  
USBC Bronze & Silver Certificates  
20 IBMA Editorial/Writing Awards  
IAB Special Recognition for Lifetime Contributions to Bowling Award

# Bowlology

## Required Study Material

Through this course, students will obtain a higher understanding of the modern 10-pin bowling game. This course takes bowling into the 21st Century. The student that was accepted in this course scored a 240 on the Bowling Academy –bowling assessment test. Students taking this course will have a higher understanding than the average bowling league bowler. Students will be required to journal and email their entries to Josh Hyde at joshhydebowlng@gmail.com. Journal entries might include writing a summary of required text. 50% of the students' grades will be journal entries. The remaining 50% will be the King Pin Associate exam.

Required study material is listed below:

### Books:

*The Game Changer* by Mark Baker

*Beyond the Basics* by James Freeman and Ron Hatfield

*The 50 Greatest Players in PBA History* by Luby Publishing

### DVDs:

*Learn to Bowl Competitively* by Norm Duke

*The System* by Mark Baker

*The Game's Changed* by Mark Baker

Bowlology Column in Josh Hyde's Bowling Newsletter

In 50 to 100 words describe the sport of bowling

Composition Journal

## Syllabus

- King Pin Associate Page 3 – Definition of Bowlologist make an entry in the composition journal about what person should have been in the slide and the reasons why.
- King Pin Associate Page 4 – Make an entry in the composition journal about best innovations in bowling equipment.
- King Pin Associate Page 5 – Top Ten Events in Bowling & USBC– Describe the best event in bowling and History of the USBC
- King Pin Associate Page 6 – BPAA & the history of bowling-Make a journal entry about the BPAA & General History of Bowling
- King Pin Associate Page 7– Pick out a Major Tournament and discuss why it is different from other Major titles.
- King Pin Associate Page 8 – Make entry about the history of the PBA using the Bowlologist tools tell how one might effectively use it and make and describe a Foundation Frame.
- King Pin Associate Page 9 – Describe the aspects of Bowlologist accountability.

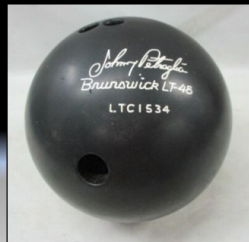


A Bowlologist is someone who studies the sport of bowling at a professional level in all aspects of the field such as playing the lanes, coaching, running a tournament, operating a pro-shop, designing a ball, being an ambassador to the sport and knowing the history of the sport and being able to write about it. Being able to take an elite level of understanding the sport of bowling is imperative if a person wants to be a Bowlologist. The individuals pictured above represent a particular aspect of the sport and along with many others had a big impact on the sport of bowling. They knew their craft in the bowling world. These individuals knew what it took to make bowling what it is today. Entering this class is the highest honor in the Bowlology Academy.

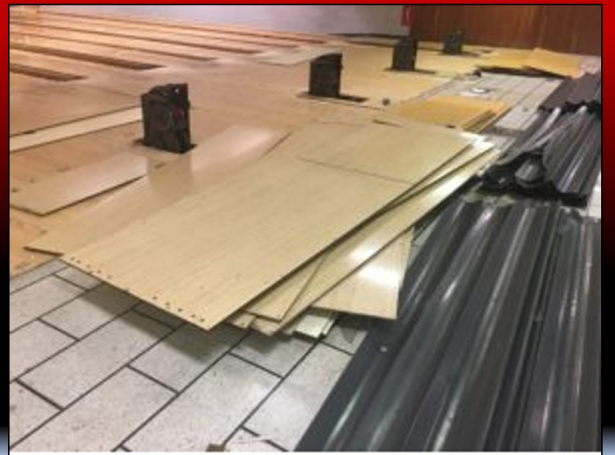


# Bowling Equipment

Throughout the last 50 years, bowling equipment has changed drastically. Bowling manufacturers have changed the cores of the ball, the ball, and the cover stock along with the layout. Pro-Shop Operators have been learning how to improve bowlers' averages just by laying out a ball differently. When weight holes were allowed, Pro-Shop Operators and bowlers could talk amongst themselves to get a better ball reaction. Even the lanes have been changed from wood to lacquer to urethane to synthetic. The bowling industry has made a tool called a rock. This tool will tell the lane mechanic how much friction is on the lane. The pins have changed from maple wood to synthetic pins which has drastically altered the scoring environment.



Example of a wood bowling lane.



Example of a synthetic lane



Slide Sole



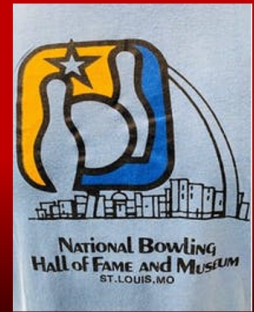
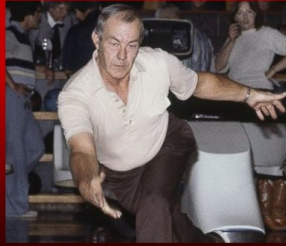
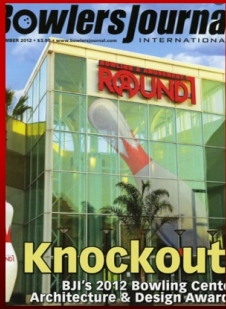
Traction Sole



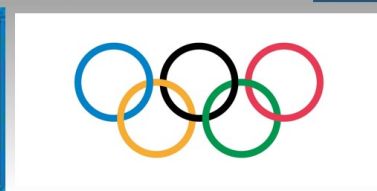
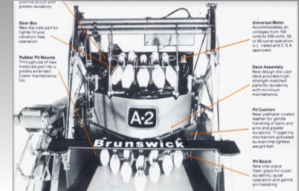
Brake Heel



# Top Ten Events in Bowling



(L-R) Rob Glaser, Mike Slade, Chris Peters



## United States Bowling Congress

Before 1895 Bowling was not an organized sport. A bowler could bowl in Detroit on a 30-foot lane and then go to Chicago and bowl on a 60-foot lane. The need for an organization was evident with the chaotic state of sport of bowling. On September 9<sup>th</sup> in New York that organization was founded as the American Bowling Congress. In this meeting they set standards for each bowling association across the country. This was the beginning of making bowling into a sport.

ABC established such standards as from the foul line to the headpin. The ball had to be 27 inches in circumference. The pins had to be 12 inches apart. A perfect game was 300.

They also established various awards for excellence in bowling. The first USBC National Championship was in 1901 where the ABC constructed six lanes in Chicago.





# BPAA

In 1932 a group of Bowling Center Proprietor's. They needed an organization of their own. The first slogan adopted was "united we prosper". Nine years later the BPAA hosted a tournament for the top bowlers of the country called the BPAA All-Star currently known as the US Open. Dick Weber and Don Carter would claim four all star tournaments each. This organization was for the proprietors who wanted to learn more the business side of bowling. Before the PBA the bowling proprietors would host television shows such as Make That Spare, Jack Pot Bowling, and Championship Bowling. Ed Lubanski was the first bowler to shoot two perfect games on National Television. Steve Nagy was the first bowler to shoot a 300 game on National Television.



## Bowling History

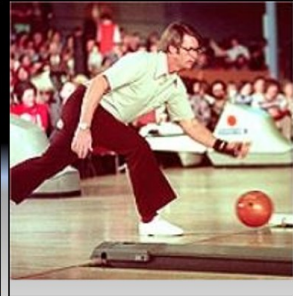
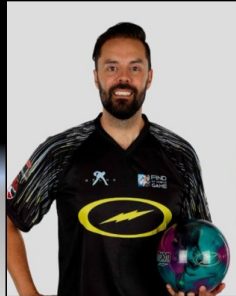
Bowling's origins date to 3,200 BC in ancient Egypt. In Europe during the early days of bowling, it was called skittles. The king Edward II in 1366 outlawed bowling so his army would stay focused on practicing archery for battle instead of bowling for amusement. Bowling or nine pins was banned in the US in some places because of the gambling that went with the game. It was at this time bowling that bowling only had nine pins. Bowling centers would give out turkeys to any bowler who bowled three strikes in a row. The perfect game was known as a golden turkey. In 1845 Brunswick was founded as the world's oldest bowling company. Up until 1905 bowling balls were made of wood when the first rubber ball was introduced the Ever true. Bowlers would use only two holes in their balls instead of three. The automatic pin setter machine was invented in 1906 and patented in 1941. AMF introduced a prototype to the general public in 1946 at an America Bowling Congress tournament but these did not really arrive at the lanes until 1956 when the Brunswick company introduced them to bowling centers.

In 1913 a bowling publication came out called the Bowler's Journal. It is the oldest bowling publication in North America. It is still in existence today. The magazine covers the bowling news of the day. In the Open Championships. The Bowler's Journal would host a five-game sweater tournament with each participant receiving a subscription. The magazine was founded by Dave Luby.



## Top Professional Bowling Tournaments

A Bowlologist evaluates tournaments both professional and amateur – whether there is a local \$1,000 first place guarantee scratch tournament or the greatest tournament of them all - the U.S. Open on the PBA Tour. Jason Belmonte has the most Majors and has won all of them at least once. He completed the Super Slam at the 2020 U.S. Open. Pete Weber won ten Majors over four decades. Walter Ray Williams, Jr. had the most PBA Tour Titles. Earl Anthony had ten Majors and forty-three PBA Tour Titles. He would also win the PBA World Championship six times, three-peating the tournament twice. Norm Duke would be the third bowler to win forty PBA Tour Titles.



## Bowlology Pillars

Being able to identify a bowler's problems - such as how they are standing and where their finish position is, a Bowlologist can identify what is wrong with a bowler's form. John Jowdy was a legendary coach who helped a multitude of top name bowlers on the PBA Tour. Now today, it is Mark Baker. Mark Baker helped Chris Barnes and Tommy Jones advance their game to a whole new level. The Joe Bowlers of today want to throw the ball like Jason Belmonte. A good coach will turn a player's liabilities into an asset. The top 100 coaches in Bowler's Journal can identify a bowler's liabilities and abilities to make their game better. This is not basic bowling. It is advanced bowling. Jakob Buttruff has finished second at the U.S. Open three times. As for Francois Lavoie, he has won three Majors - two of them being U.S. Opens.

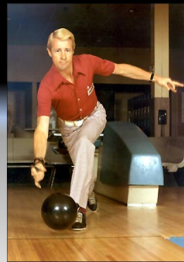
KingPin Associates is one of the ways that make their own ideas and forms to help other bowlers. Francois Lavoie has the most ideal bowling style on the approach, whereas, Jakob Buttruff has an unorthodox approach yet still has consistent results at the end of the approach.





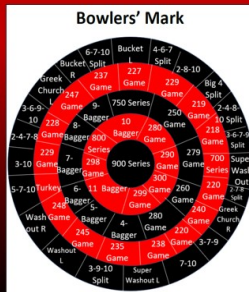
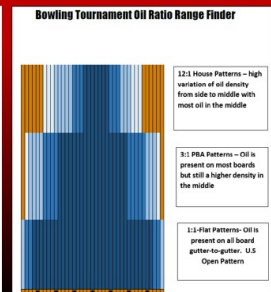
# PBA –Pinnacle of Bowling

Bowling has a number of different opportunities in addition to being a pro bowler. There are bowling center proprietors, pro-shop operators, coaches, and ball designers.. The PBA is the pinnacle of bowling. The PBA has Regional Programs (different satellite tournaments) both in the U.S. as well as Japan. However, the PBA does not have a championship for each of the regions. The PBA World Championship is like the USBC Open Championship. Earl Anthony has won six PBA World/National Championships. Eddie Elias talked with the best bowlers at the 1958 USBC Masters which was the starting point for getting the PBA founded. He asked 33 bowlers who were the charter members to put up \$50 apiece. Eddie's dream was coming true. Dick Weber, Don Carter, Carmen Salvino, Harry (The Tiger) Smith and Ray Bluth were some of the founding members. The first tournament was held in 1959. Lou "Wrongfoot" Campi would win the first one and Dick Weber would win twice. In 1960, Don Carter would win the inaugural PBA (National) World Championship. PBA Membership would grow over the years. At its height, there were 10,000 members.



Left to right: Eddie Elias, Lou "Longfoot" Campi, Dick Weber

# Bowlologist Tools of the Trade

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These are the tool of the trade for a Bowlologist. The tools help measure different aspects of the sport of bowling and help a Bowlologist become a specialist in the field of Bowlology.

## What is a Bowlologist Firm?

A Bowlologist firm is a company in which bowlers and bowling fans can obtain information regarding the sport of bowling. If a bowler wants to improve their game, they can do some research on Bowlology and find the topic that will help them improve their game. If a bowling fan wants to know the likelihood of a pro-bowler winning a tournament, they can study the Strike Column in Josh Hyde's Bowling Newsletter. Bowling fans and bowlers also have an opportunity to review data of different professional and amateur tournaments. Bowling Tournament Analysis, both pro and amateur, can provide a resource for bowlers or bowling fans as to what the scoring environment was in a particular tournament. Below is an example of Josh Hyde's Bowling Foundation Frame.



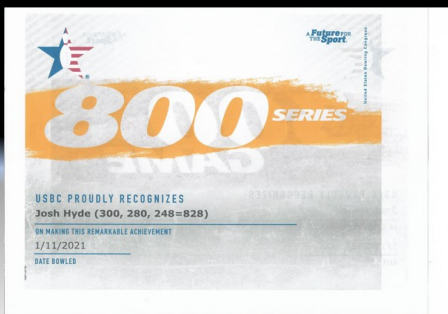


# Bowlologist Accountability-Record Keeping

JOSH HYDE BOWLING LEDGER - Fiscal Year 2021						
MONTH	NEWSLETTER	Tournament Attendance-Pro/Amateur	TOURN. REPORT	PBA/PWBA PROJECT	BOWLOLOGY	AWARDS / HIGH GAMES /HIGH SERIES
JAN.	M, OTS, BC, BOL, OFC, POB, TFE			Pinnacle of Bowling	Bowlogy Academy, Bowology Form	3- 300's 3-800 with a 300 game. 7-games over 250.
FEB.	M, SPC, BC, OTS, OFC, POB			Pinnacle of Bowling	BOWLOLOGY FIRM 101	2-250 GAMES 2-700 SERIES
MAR.	M,SPC,OTS,BOL,BC,POB,TFE			Pinnacle of Bowling	Bowlogy Academy Guide, Ten in the Pit, SafeSport,	3 700's, 276 Game, 6 Games over 250
APR.	M,SPC, POB,				Spare Strike Seminar	226 Triplicate, 700 series with a 266 game.
MAY	M, SPC, POB,				Bowlogy Academy on website, King Pin Associate 900 Course	
JUN.	M, SPC, BOL, OTS, ITP,					
JUL.						
AUG.						
SEPT.						
OCT.						
NOV.						
DEC.						

This is an example of a Bowlology ledger that I introduced in 2016. I currently send a semiannual report to six Strikeholders, including Parker Bohn III, Gianmarc Manzione (Editor of Bowlers Journal International) and Chad Murphy (USBC Executive Director). The reason for creating a ledger is for a Bowlologist to have a businesslike accountability system on what the sport of bowling is doing on a national and local level and to mark the Bowlologists' achievements in their personal bowling game.

## Bowlologist Resumé



PBA History	
The Year that Del Ballard, Jr threw a gutter ball to lose the title	1991
First Bowler to surpass 1 million	Earl Anthony
Second bowler to win ten major PBA Titles	Pete Weber
The bowler that has the most PBA Major titles	Jason Belmonte
First Three Time Tournament of Champions winner	Mike Durbin
First Bowler to win a 100 combined PBA Titles.	Walter Ray Williams, Jr
First Bowler to earn \$300,000 in a single season.	Walter Ray Williams, Jr
Single Season Earnings Record	Kyle Troup
Second Bowler to complete the SuperSlam	Jason Belmonte
The Bowler who won the most titles in a single season	Mark Roth(8 titles)

USBC History	
First Player to bowl a 300 in USBC Open Championship	Billy Knox
First Bowler to bowl a USBC sanctioned 900 series	Jeremy Sonnenfeld
First Bowler to defend the USBC Masters Title	Dick Hoover
The Bowler who has the most Eagles	Nelson Burton, JR
First Year that USBC Sanctioned PBA Tournaments	1990
First bowler to win the Senior USBC Masters	Phil Ware
The first bowler to win multiple USBSC Masters	Billy Welu
The year that the USBC had the inaugural Hall of Fame	1941
The number of Eagles a bowler needs to win to be inducted into the USBC Hall of Fame	Four
The first bowler to win the USBC Masters Three Times in a row	Jason Belmonte

Equipment History	
First Bowling Ball Company	Brunswick
First Bowler to win with the resin reactive ball.	Marc McDowell
The first urethane bowling ball was introduced	1980
First Resin Reactive Ball	Excalibur
The ball company that used a KFC bucket to make their first ball.	Storm
A Bowling ball took down 3 sets of pins on a commercial	KE 21 AMF bowling ball
The year the plastic ball was first introduced	Early 60's
The year the first underground bowling ball return was introduced.	1978
The year the first string pin-setter was invented.	1963
The year that Columbia 300 was founded	1960
A bowler soaked his ball in MEK	1973 Don McCune-He won 6 titles

<b>Bowling History</b>	
Oldest Bowling Publication	Bowlers Journal International
Longest Running Bowling Organization in History	United States Bowling Congress
First year Bowling was an Exhibition Sport in the Olympics	1932
First bowler to bowl 35 strikes in a row.	Ray Orf
The Bowling Tournament that substituted for bowling in the Olympics.	World Brunswick Memorial Open
A rudimentary form of bowling first appeared over 5,000 years ago.	Ancient Egypt
The modern form of bowling was adopted in Germany.	3 <sup>rd</sup> Century AD
The year the IBMA was founded	1934
The year that the national Bowling Hall of Fame & Museum opened up	1984
The year the first World Invitational was conducted	1956
This was known as a perfect game.	Golden Turkey

<b>BPAA History</b>	
First Bowler to win two US Open All-Star Titles	Andy Varipapa
The year that BPAA was founded	1932
A bowler who bowled back to back perfect games on national television.	Ed Lubanski 1959
BPAA was organized by bowling properitors in this year	1932
The Year the BPAA All-Star(U.S Open)	1941
The first year the BPAA All-Star was not held in Chicago	1958
The year that the US Open Mens & Womens Tournament was conducted at the same venue	1996
This event was the first to use automatic pinsetting and had the finals televised	1952 BPAA All Star Tournament
These three bowlers have four or more BPAA All-Star (currently known as the US Open)	Dick Weber, Don Carter, Pete Weber,

<b>Bowlology Pillars</b>	
Mary Strike is having a hard time making her spares.	Knowledge of the Sport
Bill Open is unsure what he needs to score to win the game.	Knowledge of the Sport
Bob Spare falls off balance at the foul line.	Physical Game
Julie Frame is muscling the ball.	Physical Game
Doug Bowler moves right on one ball, and the ball goes left. On the next ball, he makes an adjustment and the ball goes right.	Lane Play
Joe Split is leaving the 10-pin and unable to string strikes.	Lane Play
Dick Pin is using the wrong layout.	Ball Dynamics
Pat Strike is not using the correct surface on the ball.	Ball Dynamics
Bowler fails to acknowledge bowlers on adjacent lanes.	Knowledge of the Sport
Bob Lane is having a difficult time keeping his trail leg on the floor	Physical Game



Major Tournaments	
The first player to win every major in his PBA career.	Mike Aulby
Name the tournament that only PBA Champions can enter.	Tournament of Champions
Name the player that has the most US Open Titles.	Pete Weber
Name the only bowler to win three consecutive TOC titles.	Jason Couch
Name all three players that have won the Grand Slam.	Mike Aulby, Jason Belmonte, Norm Duke
Name the center which hosts the Tournament of Champions	Riveria Lanes
Name the first bowler to win four US Open Titles.	Don Carter
Name the second bowler who won four US Open Titles.	Dick Weber
Name four of the nine Triple Crown Winners.	Billy Hardwick, Johnny Petraglia, Pete Weber(2), Mike Aulby, Norm Duke, Jason Belmonte, Dom Barrett, EJ Tackett, Chris Barnes
Name 6 out of 11 players who have at least won the US Open twice.	Marshall Holman, Pete Weber (5), Walter Ray Williams, Jr. Dell Ballard, Dave Husted (3), Norm Duke, Francois Lavoie, Dick Weber (4), Don Carter (4), Andy Varipapa, Junie McMahon

## Bowlology Academy Internship Project

After a student has passed all of the Bowlology Academy courses, they will have an internship project in one of the of several fields discussed during the coursework. They will also learn the B.A.I.L. skillset for becoming a Bowling Analyst Industry Leader which is the final stage of the Bowlologist program.

Tournament Director– an intern would talk with a proprietor about the lineage per game or per bowler and the format of the tournament. It is a tournament director’s initiative to understand that a bowling center might have a birthday party. The proprietor needs to understand that the lanes need to be challenging or easy depending on what the tournament director’s goal is.

Pro-Shop Operator– an intern would learn how to use the various types of equipment at the pro-shop for customizing a player’s balls. They would also learn how to put in an Interchangeable Switch Grip.

Ball Designer– an intern would meet with an industry ball designer to learn the process of a designing with the CAD program and how cover stocks are made.

Coaching– an intern would be an assistant coach to someone who is teaching a high school team, league players, or professional bowlers. They would learn how to teach one hander/two hander bowlers, lane play,

Bowler– an intern would gain real experience by bowling in PBA Regionals, Scratch tournaments, and several league nights on house and sports shot patterns.

Bowling Writer– an intern would write up stories on local, regional or national bowling tournaments and submit them for evaluation and publication.

**There will be a Bowling Industry Analysis Project that must be completed by all graduates. Students must complete a project on how all aspects of the bowling industry work together toward the goal of improving the sport for bowlers of all skill levels and fans of the sport.**