Mine Tourism

Innovative uses of old mines

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Tourism is:
Practice of traveling for recreation, guidance of tourists, encouragement of touring, and the accommodation of tourists.

A Tourist is:
Those who make a tour for pleasure or culture (travels more than 50 miles).
Spring Mill State Park attracts thousands of visitors each year to south central Indiana.

The focus of visitor attention is an operating 1840’s vintage grist mill and associated village.
History grinds on long after economic activity has changed or ceased altogether. Proper conservation, development, and promotion of old mines can be useful.
Indiana Tourism Data:

- Indiana tourism is a $9 billion industry
- Tourism annually attracts 59 million leisure visitors

(Indiana Office of Tourism Development, September 2007)
## Tourism’s Economic Impact

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<tr>
<td>Jobs both full-time &amp; part-time</td>
<td>264,690</td>
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<tr>
<td>Payroll</td>
<td>$5.83 billion</td>
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<tr>
<td>State government tax receipts</td>
<td>$308.2 million</td>
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<tr>
<td>Local government tax receipts</td>
<td>$120.8 million</td>
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*Travel Industry Association of America, 2004*
Types of Tourism

- Active recreation
- Geotourism
- Cultural tourism
- Heritage tourism
- Archaeological tourism
- Agrotourism
- Mine tourism
- Health tourism
- Sports tourism
Geotourism is becoming an important aspect of ecotourism.
Tourism is important to Indiana’s economy.
Current Locations of Mine Tourism in Indiana

- Scales Lake
- Lynnville Park
- Old Ben Boy Scouts camp
- Sugar Ridge Fish and Game
- Bluegrass Fish and Game
- Victoria Golf Course
- Interlake Recreation Area
- Redbird ATV Park
- Greene-Sullivan State Forest
- Shakamak State Park
- Turkey Run State Park
- Spring Mill State Park
- Lincoln State Park
- Exotic Feline Rescue Center
A mine is "a hole in the ground with a fool at the bottom and a liar at the top"  
Mark Twain (?)

A mine is:  
A pit or excavation of the Earth from which mineral substances are taken; an ore deposit.

Webster’s Dictionary
Coal mined areas in Indiana

~370,000 acres have been directly affected
In politics, perception is reality.

Marty Irwin (?)
THE CHALLENGE: Improving wildlife habitat

The acidity level in Weber Lake once measured a pH of about 3.8. Fish and other aquatic species need a pH in the range of 6 to 8 to survive.

THE SOLUTION:
Life in Weber Lake is restored!

As the acidity stabilizes in Weber Lake at a level that can sustain life, many animals common in other parts of Lincoln State Park are reappearing. Look and listen for these creatures as you enjoy the view from the top of the old mine.
More than 284,500 acres have been surface mined along outcrops of major commercial coals.
Uses for Mined Areas

- Dry Storage
- Cold Storage
- Water Potential
- Heat/Cool source
- Fuel Storage
- Libraries
- Bioreactors
- Education
- Tourism/Recreation
- Compressed Air/Gases
Current Reuses of Coal Mined Lands

From McGriffin, IDNR
<table>
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<tr>
<th>Current Uses for Mined Lands</th>
<th>Potential Uses for Mined Lands</th>
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<td>Geocaching</td>
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<tr>
<td>ATV</td>
<td>Racing (?)</td>
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<td>Swimming</td>
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<td>Collecting fossils</td>
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<td>Biking</td>
<td>Speleotherapy</td>
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<td>Special Events</td>
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Some Benefits of Tourism

• Income for the area
• Jobs for local people
• Jobs for miners
• Enhancing local culture
• Protecting heritage/History
• Educating public and voters about mining
• Highlighting modern reclamation
• Improving recreation opportunities
• Enhancing Indiana’s reputation
Underground salt mine near Krakow, Poland is a major tourist attraction
Potential Pitfalls

• Expense original and ongoing
• Change to local culture/lifestyles
• Infrastructure needs
• Need for continuing commitment
• Symbiotic sites of questionable nature
• Need for advertising/media
• Seasonal nature
The Sterling Hill mine in New Jersey hosts thousands each year and tells the story of zinc mining in the Pocono Mountains.
Mine museums usually display working machinery.
Non-coal mines, such as this salt mine above, can also be tourist destinations.
Museums to honor coal-mine heritage occur in Appalachia in the U.S. and in many other countries.
The Welsh Slate Museum

The Welsh Slate Museum once housed the workshops for Dinorwig, one of the greatest quarries in the world. Slate roofed the industrial revolution.

These buildings thundered to the sounds of forges, foundries, and the spectacular giant waterwheel, the largest on mainland Britain. You can see them all, still working today. Quarry workers’ houses, slate-splitting craftsmen and a children’s discovery area celebrate the story and skills of the generations who battled for slate.
Abandoned mines can offer tours that educate the public about the real mining and dispel incorrect perceptions.
Big Pit: National Coal Museum

About the museum

Big Pit is a real coal mine and one of Britain’s leading mining museums. With facilities to educate and entertain all ages, Big Pit is an exciting and informative day out.

More about Big Pit...

Web page showing national coal museum in the U.K.
Mining museums offer excellent chances to educate the young.

Teachers often have misconceptions about mining and educating the teachers to teach the young can be very valuable.
Mine tours are also important in teaching the young!
Thousands of school children visit this mine in New Jersey where they take underground and surface tours, then collect and examine minerals that were mined at the site.
Children love rocks and need to learn about mining. At Sterling Hill Mine, they can collect and identify rock and mineral specimens of their own.
STINESVILLE LIMESTONE INDUSTRY

In 1827, Richard Gilbert opened a commercial limestone quarry three quarters of a mile south on Jack's Defeat Creek. Stinesville's oolitic limestone, desirable as building stone, was used in several Indiana courthouses and Soldiers' and Sailors' Monument, Indianapolis. Limestone industry has been major economic factor in area.
Some coal museums exist at universities.

Many county museums have modest displays about local coal mining operations.
Coal mine exhibit at the Museum of Science and Industry in Chicago, Illinois is still very popular.
Dugger's underground past

Museum allows visitors to dig into town's coal mining connection

Stories by Michelle L. Hudson • Photos by Joe Swisher
A local mine museum operates near the Lynnville exit off I-64 in southwest Indiana.
A museum near Lynnville displays many coal mine items and even hosts special events to tell the public about coal mining.

COLLECTORS’ DAY 2010

Saturday, September 18, 2010
8:00 AM – 4:00 PM
Trading All Types of Mining Items

Museum is located on Hwy 68, 1 mile west of Hwy 61 intersection in Lynnville.

Box 401 Highway 68W, Lynnville, Indiana 47619
(812) 922-5659

This museum is adjacent to I-64 and could attract many visitors.
Coal museums can engender positive news reporting about mining and help to better inform the general public even tourists.
Community involvement is crucial to saving coal heritage.
Small communities honor their mining heritage with parades and festivals.
Dugger, Indiana hosts an annual coal festival in September.
The Wilds is a popular animal park constructed on 10,000 acres of strip-mined lands east of Columbus, Ohio.
American Electric Power (AEP) donated more than 60,000 acres of mined areas for recreation in Ohio.
The Wilds is a strip mine morphed into a wild animal park.
A memorial to miners and the bucket from Big Muskie is all that remains of extensive strip mining near Newark, Ohio. Visitors stop to marvel at the enormous equipment.
The Eden Project is a remarkable story of post-mining regeneration. Set in an old china clay pit in a part of the UK still suffering from the collapse of its mining industry, it is a triumphant social and economic success.
Pedreres de s’Hostal, Minorca, Spain
05
Camborne & Redruth
The largest fossil rainforest, covering 1,000 hectares, has been discovered a hundred metres below the surface in a coal mine in Illinois. Unfortunately it isn’t open to the public – it would be too expensive to make safe.

A former limestone quarry in a forest in Dalarna, one of Sweden’s most popular tourist areas, houses an astonishing music venue. Dalhalla (a name derived from the region and Wagner’s Valhalla) is the brainchild of Margareta Dellefors, a former opera singer who tested the sound of her powerful voice in the quarry to prove the site’s exceptional acoustic qualities.

The quarrying provided a natural amphitheatre and a dramatic stage set to one side of the bright blue/green lake. Seating 4,500, Dalhalla plays host to events each summer including opera, choir, jazz and pop concerts.
'COUNTDOWN TO HEARTLANDS'

The Robinson’s Shaft site at the former South Crofty Mine in Pool was the centre of a media launch on Friday 23rd July marking the commencement of work to construct a major new urban park for the local community with a significant mining heritage focus.

The Heartlands project will create an extensive green space for the village of Pool in addition to providing a range of community facilities including state-of-the-art conference facilities, work studios and meeting venues. It is also planned to offer regular community events including exhibitions, festivals, art fairs and farmers’ markets.

At the centre of Heartlands is the important Robinson’s Shaft site itself, a Grade II Listed complex of buildings including the hugely significant Robinson’s Shaft pumping engine. Situated within the Camborne and Redruth Mining District area of the World Heritage Site, the Robinson’s engine and building complex is due to be conserved as the showpiece of the project.

Built over a century ago, the 80 inch cylinder steam pumping engine, built by Sandy’s Vivian and Co, Hayle, in 1854, and which last worked in May 1955. Put into mothballs at this time, the Robinson’s Engine was to be the last Cornish pumping engine to work on a metal mine and was 101 years of age when decommissioned. The Heartlands project will renovate this historic engine and it is planned that this important piece of Cornish industrial heritage will be put in motion once more using compressed air.

Groups of musicians, dancers and other performers were on hand to help celebrate the event which included the ‘Great Heartlands Balloon Race’ when over 800 balloons were released. Each of these came with an individual ‘Hope for Heartlands’ message from the many students who have been involved in the Heartlands project to date with a prize offered for the balloon furthest travelled.

Work on the Heartlands project is due to be completed by the autumn of 2011 and to find out more please see the Heartlands website: www.heartlands.com/westcornwall.com
Indianapolis Museum of Fine Arts – 100 acres

The nature area and sculpture garden occupy the site of an abandoned sand and gravel pit.
This mine was the site of “Performance Art”}

Architecture, Intervention, Scenography, situative narratives

SOAP OPERA

Black, white, dirty, clean, dressing room, locker room, coal, soap, shower baths, mine, stage. Theater happens right now!
Abandoned mines are notable for recreation potential such as this abandoned strip mine near Dugger, IN.
White Star Quarry, Gibsonburg, Ohio

By Divers for Divers

By Linda Lee Walden

White Star is another one of those ubiquitous limestone quarries that pock the landscape of the Midwestern and Eastern United States. Many of them, if deep enough, serve as ready-made local scuba destinations. Those few with special characteristics are visited by thousands of divers a year from all over the region, or even the world.

White Star Quarry is one of the special ones, with several distinguishing features, including central location, easy accessibility, adequate depth, convenient facilities and great atmosphere.

The quarry is surrounded by the 800-acre White Star Park, owned and operated as a year-round recreational facility by Sandusky County, Ohio. That county borders the heavily traveled corridor between Toledo, 30 miles (48 km) northwest, and Cleveland, just over an hour to the east.
Abandoned mines are prime sites for mountain biking and off-road recreation.
A constructed white-water course in South Bend, Indiana attracts many kayakers and canoeists, despite the generally flat landscape. Appropriate grading during final reclamation could make excellent white-water facilities in the coal fields.
An abandoned limestone mine at Louisville, Kentucky hosts mine tours as well as serving storage companies.

About 400,000 square feet of Louisville Underground space has been leased to eight tenants so far, and a homeland security grant could make the location a storage spot for financial and banking data.
Speleotherapy

Radon Therapy

Bad Gastein

In the Austrian Alps, in a region where radon levels are high, up to 600 patients a day are treated underground in a former gold mine. The Gastein Heilstätten has been providing pain relief for people with chronic illnesses for over 50 years through radon therapy. The patients reach the treatment rooms via a train that takes them along the original miners route 2.5 kilometres into the mountain, where the warmth and humidity elevate the body’s temperature to 36°C, which increases the uptake of radon. Radon is one of the noble gases, which accelerates cell metabolism through its short-wave rays.

Bassin and Boulder

Similarly, in the USA, treatment benches line the 160 metre long shaft of an inactive gold mine which naturally emits radon gas. The Merry Widow mine near Bisbee, Montana, is visited by thousands seeking alternative treatment for arthritis, allergies, diabetes and many other health problems; as is an ‘ionizing inhalatorium’ (of radon) at a former uranium mine – Free Enterprise Health Mine, Boulder, Montana.

Medicinal Plant Cultivation

Flin Flon

This small Canadian town was once the site of the world’s largest copper mining operation and is home to one of the world’s largest copper mines. The town has become a popular destination for visitors who want to explore the history and culture of the mining industry. The town is also known for its unique architecture, including the World’s Largest Mining Equipment, which is a giant statue of a mining shovel.

Marengo

A former limestone mine in southern Indiana provides a stable environment to grow crops containing pharmaceutical drugs for humans. Since there are no insects in the cave, and therefore reduced need for pesticides, the technique could support organic farming of fruit and vegetables too.

Salt Therapy

Sanatorium

Wieliczka Salt Mine Poland

The special microclimate of the salt excavations at Wieliczka provides beneficial effects to those suffering from respiratory conditions. Treatment is given in a chamber 135 metres below ground level where the air is of exceptional bacteriological purity, a stable temperature, high relative humidity and a wealth of microelements.

Sauna

Pyhäsalmi

Fundamental to the Finnish way of life, the world’s deepest saunas can be found 1,440 metres underground in a shaft of a copper and zinc mine in central Finland.
In addition to recreational activities, mines and mined areas offer excellent opportunities for cultural and heritage tourism.
Abandoned mill is Missouri museum

Another abandoned mill is New Jersey museum
Abandoned mines offer educational opportunities.
A most exotic reuse of mined lands is this big cat rescue center near Center Point, IN.
An opera stage built in an abandoned quarry in Sweden is renowned for its excellent acoustics.
Place of Worship – Open Air

Gwennap Pit
Cornwall, UK

Famed for its use by Methodist preacher John Wesley in the late 18th century, Gwennap Preaching Pit was built in a depression caused by mining subsidence in a once thriving and densely populated copper mining district.

Thirteen rows of turf seats were added to form a stepped amphitheatre in 1806. A Whit Monday service has been held there ever since.
Abandoned mines can become sports venues such as the cross-country track facility near Terre Haute.
Braga, Portugal
Current Recreational Facilities
Near Sullivan, Indiana
Modern digital renditions of maps help developers, miners, and planners to avoid potential subsidence or other difficulties.
Current Underground Spaces Near Sullivan, Indiana
Mined areas near large cities such as Indianapolis are often used for residential and commercial building, parks, and recreational areas.
Victoria National Golf Course
Evansville, Indiana

Abandoned mines provide impressive water hazards
Viewing platforms allow visitors to see mining from a safe distance.
Many mines, even active mines, have overlooks that allow visitors to view mining activity, such as this overlook in Wyoming.
Mine themed buildings are quite memorable and often become small-scale tourist attractions themselves.
A number of structures made of coal have become attractions.

**Coal House**

Field Review by the Team at RoadsideAmerica.com

White Sulphur Springs, West Virginia

Coal is a rock-solid source of energy and an excellent home-building material, too. West Virginia boasts at least three coal houses as proof of this versatility. They may not win points for beauty, but when was the last time you saw a house made out of hydropower or sunshine?

The coal house in White Sulphur Springs was built in 1959 by TIP MYLES. 30 tons of COAL used in building.
The Cornish Mining area of the UK is another World Heritage site that is a gem of mine tourism.
Geotourism is well developed in other parts of the world. Special geoparks have been set up to attract visitors. Some of these parks focus on mining or the cultural aspects of mining.

The United Nations recognizes certain areas as World Heritage sites. These special sites are granted monies for development and advertising.
World Heritage site in Germany honors coal mining and iron making. It draws more than a million visitors a year.
Zollverein by daylight
Zeche Zollverein

Abandoned mines can be made very attractive, such as this one in Germany!
Mine Museums in the U.S.

Coal or MTV mines shown in red

Coal or MTV mines shown in red
Some exhibition coal mines have excellent facilities.
Some coal mine tours are minimal.
Beckley, West Virginia
Coal mines can be attractive children’s venues.
Some mine attractions even boast amusement park amenities.
Abandoned mines have been used as movie sets as seen here.
Coal mines can be sites for TV programs and movies.
Coal mines are sometimes settings for movies

www.CrailwoodWestVirginia.com
Mine attractions routinely win tourism awards.

Guido Coal Mine awarded

On July 5th 2010 the formal announcement of the results of the plebiscite "Ambassador of Silesia" took place. The Historic "Guido" Coal Mine has became the winner in the category "Place". This creditable title is a great honor for the mine, mobilizing for further work. It proves, that the "Guido" mine, with its tourist and cultural offer, has become a real showcase of the region, and has got a permanent place in the awareness of many people. This success is also a proof that industrial heritage is gaining importance and becoming more and more popular.

Guido Coal Mine >>
Sylvania Fossil Park, Ohio – Hanson Aggregate
Fossil parks attract visitors to explore abandoned mines and collect interesting fossil specimens. Mazon Creek is famous for Pennsylvanian age fossils.
Pennsylvanian Age Fossils
Like many small mine attractions, the West Frankfort national coal museum was closed.
Shakamak Park hosted a tourist mine in the past

Gold Knob Mine photo courtesy Mark Stacy, IDNR Division of Reclamation
Current Locations of Mine Tourism in Indiana

- Scales Lake
- Lynnville Park
- Old Ben Boy Scouts camp
- Sugar Ridge Fish and Game
- Bluegrass Fish and Game
- Victoria Golf Course
- Interlake Recreation Area
- Redbird ATV Park
- Greene-Sullivan State Forest
- Shakamak State Park
- Turkey Run State Park
- Spring Mill State Park
- Lincoln State Park
- Exotic Feline Rescue Center
Several well-established tourist sites already exist in south western Indiana.
Towns can come together to form heritage trail attractions that can enhance tourism – West Virginia Coal Heritage Trail
Tourists already visit limestone mining areas

Welcome!

Welcome to Monroe and Lawrence Counties where we invite you to experience the Indiana limestone heritage trail. We are very proud of the ongoing legacy of Indiana limestone, particularly the local “Salem Belt,” a stone corridor only 35 miles long and 10 miles wide, which was formed from limestones in an ancient (Mesozoic) sea.

Many of America’s famous buildings were built of stone quarried from the Salem Limestone. This stone — thick, uniform, and purplish in appearance — is a preferred building material because of its warm, neutral color, consistent fine quality, ease of shaping, and proven durability.

“The nation’s building stone” has been used in magnificent commercial, government, and college buildings, including the Empire State Building, Chicago’s Tribune Tower, the National Cathedral, the Pentagon, the Immigration Center on Ellis Island, and on many college campuses and U.S. state capitols.

Using this Brochure

This brochure will help you navigate the sights and amenities of the limestone belt of southern Indiana, with information about the geology, the limestone industry, and where to see examples of the beauty of Indiana limestone.

Monroe and Lawrence Counties have forged a partnership to educate visitors about our prized limestone heritage. From monuments to walking tours, restaurants to state parks, this guide provides the visitor with many opportunities to learn more about Indiana limestone and its long history (and bright future) in south-central Indiana.

This self-guided tour features limestone sites where you are welcome to enter and explore, including parks, cemeteries, public streets, museums, and many restaurants and other businesses.
Many tourists will go through this area on a new interstate, I-69.
Weber Lake is a popular tourist attraction, built on an abandoned coal mine. Notice the former high wall in the photo to the left.
Several parks related to Abraham Lincoln occur in the coal fields.

Lincoln boyhood home national park

Colonel Jone’s home Indiana state park
Holiday World draws more than a million visitors a year to coal-field areas of SW Indiana

Coal in your stocking is not always a BAD thing!!
## Current Uses for Mined Lands

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## Potential Uses for Mined Lands

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- Income for the area
- Jobs for local people
- Jobs for miners
- Enhancing local culture
- Protecting heritage/History
- Educating public and voters about mining
- Highlighting modern reclamation
- Improving recreation opportunities
- Enhancing Indiana’s reputation
Potential Pitfalls

• Expense original and ongoing
• Change to local culture/lifestyles
• Infrastructure needs
• Need for continuing commitment
• Symbiotic sites of questionable nature
• Need for advertising/media
Mining and other companies often help to support tourist mines and museums.
CONCLUSIONS

- Mined lands are currently used for recreation
- Mined areas could be used for additional tourist activities
- Such activities could bring visitors, jobs, and additional revenue
- Old mines could be used for education
- Coal mine heritage could also attract tourists
- Museums could archive mining artifacts for the future
CONCLUSIONS

- Efforts to sculpt surface mines for later tourist use are possible
- Geotourism and cultural tourism are growing rapidly
- Several existing attractions occur in coal mine areas
- Strong transportation routes already exist
- A new interstate will bring additional opportunities for coal tourism
- Proper use of coal tourism and cultural heritage can enhance public understanding and acceptance of mining
The End!
The End
Underground Storage is Secure
Coal areas routinely host sporting events of various types.

The 5th Annual Tour de Coal Bicycle Ride.

The Coal Country Chamber of Commerce is proud to present the 5th Annual Tour de Coal Bicycle Ride. The Tour de Coal is for riders of all ages and abilities who have an interest in cycling in the Macoupin County, Illinois area. The ride will be held in conjunction with the 12th Annual Fall Festival held at the Benld Civic Center.

Choose from a 15-mile family ride, a mid length 30-mile ride or a metric century ride. The terrain is flat to rolling with some substantial hills. All routes start and end at the Benld Civic Center.

Restrooms are available at the civic center and the city park.

The routes will be marked and cue sheets will be provided. All routes will have rest stops with snacks, water and Gatorade. All Routes will be SAG supported (SAG ends at 3 pm, so please plan your start time to correlate).

**Helmets are required for all riders. Cyclists must obey all traffic laws.**

For more information, please call (217) 839-4888 or email questions to mrer@madisontelco.com.
Welcome to Tour-Ed Mine!

Experience what it was like to be a coal miner in the 1850’s and today. Your guides are experienced coal miners, who will treat you to an amazing, educational tour 160 feet below the Earth’s surface. Click here to watch our virtual tour!

The Tour-Ed Mine and Museum also features:
- Authentic Pittsburgh & Shawmut Railroad Caboose
- An above ground strip mine
- A 1785 log house
- And lots more!

Haunted Mine
Throughout October
Bravery encouraged!

Thursdays 7PM – 10PM $10 / person
Fridays 7PM – 11PM $12 / person
Saturdays 7PM – 11PM $12 / person
Recommended for ages 10 and up.
More info: thehauntedmine.com
WELCOME TO SHOALS

HOME OF THE JUG ROCK

CATFISH FESTIVAL
July 4th
Indiana Coal Production

[Graph showing the production of coal in Indiana from 1880 to 2000, distinguishing between underground and surface mining.]
Marina

Penlee Quarry
Newlyn, Cornwall, UK

The former dolerite quarry, which currently has permission for armourstone excavation for nearby coastal works, is in the planning stages for a marina with commercial and housing development. The aim is to create a 120 metres channel to the sea.
Safe from most natural or human hazards, the storage facilities at an old salt mine in Hutchinson, Kansas offer a solid rock cocoon 200 metres below the surface that is a constant temperature and humidity, and dry and gas free. Developed in the Cold War, the facilities have private vaults and maximum security but are now used by all industries and by companies large and small. They hold the largest collection internationally, for example, of film and TV material. The same company also has stores underground in limestone mines in Louisville and Kansas City.

**Winsford Salt Mine**

**Cheshire, UK**

A wide range of documents and sensitive or fragile materials are also stored in Winsford salt mine in Cheshire, UK.
Electronic data centres need a huge amount of power to prevent servers from overheating. A pioneering consortium of information technology firms in Japan plans to overcome this by building an underground data centre in an abandoned coal mine where groundwater will be used as a coolant, consuming 50% less power than traditional facilities. The data centres are enclosed in shipping containers, called Blackboxes, each typically with 250 servers inside, and robust enough to withstand earthquakes and terrorist attacks. This site has the potential to hold 90 Blackboxes.
Much tourism involves culture or art, but many are attracted to natural features and historical sites. Mines are a big part of Indiana’s history.
Tourism employs many people and showcases Indiana’s fine cultural background.

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<th>County</th>
<th>Output ($ Million)</th>
<th>Employment (Persons)</th>
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<td></td>
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* Some data suppressed due to missing values or confidentiality.
More than 186,300 acres have been underground mined.
Underground Storage is Secure
‘DISCOVER THE EXTRAORDINARY’
PROJECT UPDATE

As reported in the spring edition of the newsletter ‘Discover the Extraordinary’ (DIE) project is well under way delivering major improvements to visitor facilities and interpretation at mining heritage attractions across the site.

Initially conceived by the WHS team in 2007, the DIE project is supported by the Heritage Lottery Fund and has been made possible through the Rural Development Programme for England (RDPE) as part of a three-year project with a total spend of £875,000. Gary Jago, Project Manager for the programme, gives an update on some of the highlights at those sites which are benefiting significantly from this major tourism funding initiative.

VISITOR RECEPTION BUILDING, GOODPHIN, RRAGF

The National Trust have completed the restoration and conversion of a listed historic farm building to provide the new visitor reception facilities for Goodolphin House, Gardens and Estate and this is now open to the public. The new facilities include a reception desk, visitor orientation, toilets and a café area. Environmental sustainability has been a key requirement during the planning phase for the new build and the design of the interior is contemporary while remaining sympathetic to the character of this historic property.

POLDARK MINE, WENDRON

Transcend Ltd has largely completed the conversion of the historic Holmans’ traversing winder, which is a half-scale model of a very unusual steam engine produced by Holmans Brothers of Camborne for the Paris Exhibition of 1900. Designed to traverse from side to side during shaft winding operations, it was thought until recently that the winder was complete with the original winding drum being lost. The chance discovery of the drum within a formerly sealed off area of the Poldark site has enabled the model to be restored and go on display to visitors once more. A recent photo of the winder taken at the Poldark mine exhibition shows it accompanied by a small winding headframe as part of the exhibit and the DIE project has also enabled the construction of a timber replica of this which, along with a weatherproof housing, completes the installation. Poldark also plans to upgrade the mechanical (hydraulic) systems which control the motion of the Cornish beam engine in due course which, it is hoped, to pump commercially on a mine in Cornwall.

HOUSES, KING EDWARD MINE, TROON

King Edward Mine has recently seen the completion of the new winder and compressor houses which replace the original buildings destroyed by fire in 1957. Growtht Construction of Troon have been undertaking the rebuild and white the severe winter weather has delayed works to some extent the result has been very well received. Expertly constructed in the original Victorian style, in keeping with the remainder of the Grade II Listed site, the buildings will permanently house the Holmans Brothers’ horizontal steam winder, installed here by 1908, and the site’s Harvey’s country air compressor. The mine’s expert volunteer staff have also worked with the DIE project team to organise an inauguration event which was held on Monday 16th August. Councillor Alec Robertson, Leader of Cornwall Council, performed the official opening followed by speeches of thanks by Tony Brooks (King Edward Mine) and Deborah Boden (Cornish Mining World Heritage Site Co-ordinator) in the company of an invited audience.

ST ANNES MUSEUM

St Agnes Museum holds an extensive collection of artefacts and documents relating to life and work in the area and the DIE project has enabled significant upgrades to facilities here. Enhanced lighting using light emitting diode units provide a low energy alternative to the former tungsten filament bulbs and have the added benefit of producing light with reduced UV wavelengths which can cause fading and damage to historic collections. Phase 2 of the project will address interpretation enhancements within the museum and work is due to be completed on this before spring next year. A local architect is also assisting the project team to compile a specification for a ramp to improve access to the museum’s main entrance which will also include upgrades to the existing pathway.

In future editions we will be visiting ‘Discover the Extraordinary’ again and following this exciting project as work progresses.

Gary Jago
Advantages

- Cheap Space
- Secure
- Stable
- Moderate Temperature
- No encroachment

Disadvantages

- Water
- Human factor
- Water concerns
Underground space is perfect for storing spirits
Abandoned mines are notable for recreation potential such as this abandoned strip mine near Dugger, IN
The Kentucky Coal Museum has many outreach activities.
<table>
<thead>
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<th>Current Uses for Mined Lands</th>
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<tbody>
<tr>
<td>TYPE</td>
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<table>
<thead>
<tr>
<th>Potential Uses for Mined Lands</th>
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<td>TYPE</td>
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</table>
GEEVOR TIN MINE BECOMES A ‘KEY CENTRE’ FOR VISITORS

HRH the Duke of Kent visited Geevor Tin Mine, Pendeen on Monday 26th July where he unveiled a plaque to commemorate the conferment of Cornish Mining World Heritage Site ‘Key Centre’ status.

Geevor Tin Mine is at the heart of the St Just Mining District of the World Heritage Site and as such is ideally positioned to serve in this role whilst also having the required facilities. Geevor became a World Heritage Site ‘Key Centre’ following a rigorous assessment of the quality of the visitor facilities and its displays.

During a guided tour of the mine with Geevor staff, the Duke visited the new World Heritage Interpretation and Orientation rooms with new interpretation panels explaining the significance of the Cornish and west Devon Mining Landscape. The interpretation panels and information have been funded by a European Union and DEFRA grant through the Rural Development Programme for England (RDPE). It is part of the ‘Discover the Extraordinary’ project, a three-year programme of investments across Cornwall and Devon developed by the Cornish Mining World Heritage Site Office to enhance the visitor experience in the World Heritage Site. The RDPE funding has been awarded through the Sustainable Rural Tourism Theme, managed by the South West RDA, which aims to assist the growth of environmentally sustainable tourism in rural areas. Lesch Colour produced the interpretation panels, following extensive research by staff at Geevor Tin Mine.

His Royal Highness was met by Lady Mary Hobhouse, DECHO, Lord Lieutenant of Cornwall.

Mr William Lake, Chair of Trustees, Pendeen Heritage Community Trust and Mr Michael Simpson, Site Manager at Geevor Tin Mine. Within the World Heritage orientation rooms, Mr Lake introduced Sir John, International Co-ordinator Deborah Boden who explained the Heritage Centre and its links with the World Heritage Site.

After an informal reception in the Exhibition Gallery where His Royal Highness met invited guests, the Duke unveiled a commemorative plaque conferring World Heritage Site ‘Key Centre’ status on the mine.

Cornwall Council cabinet member for the Environment, Cllr Julian German, said: “I congratulate the staff and volunteers at Geevor Tin Mine on this important achievement. World Heritage Site status requires us to provide a high level of care for our internationally important landscape asset, whilst at the same time attracting more and more people to learn about and enjoy our world-changing mining culture. Ours is a complex World Heritage Site, the largest in mainland UK, but its dispersed and diverse nature offers unique tourism opportunities — many places for the visitor to engage with it, and across these a variety that offers something for everyone, whatever their interests.”

High quality visitor attractions such as Geevor Tin Mine are vital in presenting the World Heritage Site themes to the new audiences we are reaching out to. They have to deliver high standards if we are to meet the high expectations that people have of World Heritage Sites. For this reason the World Heritage Site Office has been working with a consortium of attractions, the Cornish Mining Attractions Marketing Association (CMAMA), in creating the ‘Discover the Extraordinary’ project to improve standards of interpretation, visitor care and joint promotion. The concept of Key Centres is a principal element of this integrated approach — a small group of attractions that meet a range of challenging criteria and have passed a rigorous assessment process to ensure the highest quality of experience for the visitor.”

For further information on Geevor Tin Mine please visit: www.geevor.com
The economic impact of tourism in Indiana is large and affects other industries.

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<tr>
<th>2008 Total Impact</th>
<th>Direct</th>
<th>Indirect</th>
<th>Induced</th>
<th>Total Impact</th>
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<td>Output ($ million)</td>
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<td>2,989.5</td>
<td>2,097.6</td>
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<td>Value-added ($ million)</td>
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<td>Indirect business taxes ($ million)</td>
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### TABLE 2: ECONOMIC IMPACT OR MULTIPLIER EFFECT OF ARTS AND CREATIVE SECTORS IN INDIANA, 2006 AND 2008

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<th>2006 Total Impact</th>
<th>Direct</th>
<th>Indirect</th>
<th>Induced</th>
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<tr>
<td>Output ($ million)</td>
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<tr>
<td>Museums and collections</td>
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<td>55.8</td>
<td>90.7</td>
<td>296.1</td>
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<td>222.0</td>
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<td>Film, radio and TV</td>
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<td>4,641.1</td>
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<td>Museums and collections</td>
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<td>836</td>
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<td>Indirect Business Taxes ($ million)</td>
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<td>Museums and collections</td>
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