



QUANTUM AUDIO MECHANICS

NOTE: Due to limitations on the numbers of characters allowed for file names in many DAE or DAW programs, we have had to abbreviate many of the actual file names – but not the folders in which they are stored. Always check the name of the folders and the tracks contained within when you import them to ensure you have the correct names.

EXTERIOR SOUNDS AND AMBIANCES

AM RUSH HOUR OUTDOORS – Suburban location quiet city block near main traffic roads.

AM Rush Version A - summer morning – lots of birds and squirrels chirping. Traffic nearby and far off in distance and jet plane flyovers. **Total time 1:30**

AM Rush Version B - summer morning – later hour. Different traffic patterns including distant truck noise and no jet flyover. More cars starting and driving off in this version. Birds and squirrels with occasional dog barking. **Total time 2:30.**

Car In Driveway Morning - Morning rush hour traffic in distance. Birds and squirrels closer. In left front to side, house door closes. Car door opens and closes. Car starts, shifts into gear and backs down driveway to street. Car changes gear and drives off. **Total Time 1:10**

Distant Train Horn Morning - Another suburban morning, early September. Slightly windy. Train horn is heard in distance on left side. Less bird and squirrel noise but more traffic noise in both distance and closer. Car doors and cars starting heard. Train horn continues throughout. Truck backing beep noise also heard. **Total time 3:00**

Train And Fire Trucks - Suburban October morning. Birds, squirrels, and windy conditions. Fire truck sirens are heard on left in distance first then train horn is heard in distance. Neighbors talking in background for a portion of the recording. Ambulance warbler sirens also heard. Approximately 6 to 8 different emergency vehicle sirens are heard throughout the recording. **Total Time 6:00.** (For those wondering local news later said it was a vehicle accident with no serious injuries. A fuel tank rupture on one of the cars was the reason for the large response).

www.iguanakitchen.com

1

Email: info@iguanakitchen.com

BOATS ON LAKE – Large inland recreational lake, approximately 100 square miles. Mostly smaller recreational boat traffic for sport fishing or fun. Lots of small speed boats, pontoon boats, and personal water craft (aka jet skis). All sounds recorded while on board a boat out in the lake – not recorded from shore.

Boat Traffic 01 – recorded in the middle of large bay. Lots of waves slapping against the boat hull. Many boats passing including small fishing boats, personal water craft and pontoons – some inboard, some outboard. Windy. **Total time 4:30**

Boat Traffic 02 – recorded closer to shore (but not on shore) near a campground on the lake, located next to a small channel harbor entrance. Swimmers (adults and children) near by – some boat traffic passes by and some slows to enter channel. **Total time 4:00**

Boat Traffic 03 – recorded in middle of a smaller, quieter bay. Less traffic and less wind than out in large bay. Distant voices audible from nearby lake homes and from people on the boats. **Total Time 4:00**

Pontoon Boat Engine Start – just like the title says. Engine start and boat moves out on water at slow speed. Some nearby boat traffic in background. **Total Time 2:00**

CITY STREETS & SANITATION CREW recorded while doing major sewer pipe and water main repairs in the summer on a suburban residential street.

Backhoe & Crew – Backhoe digging out water main under road. Crew members shoveling up dirt. Birds in background. **Total time 2:57**

Crew Drive Off – Having completed the work the crew packs up their trucks and the backhoe tractor and drives off. **Total time 2:36**

Sewer Vacuum - City crew using a sewer vacuum truck to clear out the mess.

Sewer Vac Vers A 5 Minute –startup of the vacuum, really long running and vacuum shut down. **Total Time 5:32**

Sewer Vac Vers B 50 Second – Same as above but much shorter run. **Total Time :50 seconds**

GARBAGE TRUCK – typical garbage truck pick up – truck pulls up, runner gets garbage cans (large plastic barrel) and empties it into the truck. Windy morning – most of the action is on the right side of sound field. **Total Time 3:45.**

GAS COMPANY CREW – Winter gas pipe repair in residential neighborhood. Includes backhoe digging and crew trucks running. Backhoe backing beeper heard repeatedly as tractor repositions itself for digging angles. **Total Time 5:00**

HARBOR, MAJOR PORT – Recorded at the Muskegon, MI harbor channel. Larger boats, mostly charter fishing vessels, large yachts/pleasure craft, and a catamaran Car Ferry.

Catamaran Car Ferry - This is the Lake Express high-speed catamaran Car Ferry that runs on Lake Michigan between Milwaukee, WI and Muskegon, MI. Recorded at the Muskegon harbor channel. Slightly windy day. The car ferry has four massive diesel engines that power four water jet drivers. Beeping noise heard is from the ferry's radar and sonar equipment.

Version A: Entering the harbor, passing in front from left to right. Turbulence and large wake splashing from ship after it passes. **Total Time: 2:16.**

Version B: Leaving the harbor, passing in front from right to left. Slow speed through harbor channel out to open water. Then hydro-jets accelerate to full speed, 34 knots – in distance. Other boat traffic in open water on left heard as Car Ferry heads out. Angry seagulls chasing the ferry. **Total time 6:30**

Fishing Boat – Cabin Cruiser Fishing Boat on Lake Michigan returning to harbor. Going from full cruising speed of about 40 knots down to 5 knots speed for entry into harbor channel. Pans from left to right front. **Total Time - 1:30**

Five Boats Going Out – Five different watercraft leaving the slow zone of the harbor channel for open water – going from right to left. A 16 foot cruiser, two jet skis, a 28 foot cabin cruiser, and a sail boat using motor power – in that order. All accelerate at the end of the harbor channel except for the larger cabin cruiser. **Total Time 3:30**

KINDERGARTEN PLAYGROUND – RECESS – About 50 kids running around and screaming on smaller playground outside school building on quiet street. **Total time 2:09**

LACROSSE GAME CROWD - High School Lacrosse – aluminum bleachers. General crowd & reactions to plays. Crowd size is approximately 1,000 and very boisterous. Recorded in bottom row of bleachers directly behind home team at 40 yard line. Field is artificial turf. This can be used as general crowd noise for almost any outdoor sporting event because the actual game and players are fairly quiet compared to other sporting events.

Version A: long form general noise and cheering with two goals and a time out horn. Lots of referee whistles. Some PA announcements in background and people walking up and down bleacher stairs. **Total time 3:33.**

Version B: last play before end of quarter. No score. 30 second clock warning announcement. Warbler siren for end of quarter clock. **Total time 1:02**

Version C: Quiet crowd murmurs and then goal is scored – big cheer. With PA announcer at end. **Total Time :22 seconds.**

Version D: Crowd cheers then disappointed “OH!” **Total Time :18 seconds.**

Version E: Half time – general crowd murmurs, people returning to stands for start of second half. **Total Time 1:45**

NIGHT TIME IN THE ‘BURBS – Recorded at night in same suburban neighborhood location as in the AM Rush sounds. Different perspectives with lots of crickets and tree-frogs, less distant traffic noises.

Distant Night Train – Late night train in far right distance, approximately 8 miles away from recording location. Many distant horn blasts. **Total Time 5:00**

Late Night Helicopter Flyover Lots of crickets and toads background noise. Aero Med Helicopter sound comes from right rear and flies over to left front. **Total time 1:30**

Suburban Night 4 am - Lots of crickets and tree frogs. Slightly windy. Some traffic sounds heard in distance. Some crunching of twigs in closer background – could be nocturnal rodents running around. **Total Time – 2:00**

Suburban Night Crickets – Just crickets and some very minimal traffic. No wind, no trains, no planes, no helicopters. So peaceful you'll fall asleep while listening. **Total Time 5:00**

Rail Traffic - Note: in some of these recordings a “popping hiss” noise can be heard – it’s coming from the engines. This is caused by the air brake system canister on the engines and is normal on slower moving engines. All trains and engines recorded in the yard series are moving at a speed of about 25 mph or less. This rail yard is bordered by several trucking warehouses, a lumberyard, and a sand and gravel company. Unless noted otherwise, the recordings were made at a road “dead end” turn-around on the edge of the rail yard where there is an employee vehicle entrance to the left side of the microphone array. The road runs out from the rail yard in the rear center of the microphone array. In some of the recordings there is also sounds of loader tractors, forklifts, dump trucks, and semi trucks including backup warning beeps.

Amtrak Train Passes – Short line service train, consisting of a remote control rear engine first, three passenger coaches, and the main power front engine last.

Amtrak Version 01 - Recorded outside the rail yard below. Approaches from right and passes in front to left. A Rail company truck approaches the yard entrance crossing from the rear and stops on left side just as the train arrives. Train sounds warning bell as it passes. **Total Time – 3:30.**

Amtrak Version 02 – Same train, different location near an intersection on a four lane highway. Traffic noises, train horn approaching in distance, crossing gates and warning bell go off and then train passes by and crossing gate bell ends. Train horn heard in distance as it continues on down the line. **Total time – 5:30.**

Rail Yard General Ambiance 01 – with several diesel engines idling in distance (EMD GP38-2; EMD MP15AC; and GE B36-7), one moving left to right and right to left in distance (EMD SD40-2). Sounds of larger loader tractors in distance and nearby lumber yard forklifts with backup beepers. Breezy wind. **Total Time – 4:00.**

Rail Yard General Ambiance 02 – background sounds – no diesel engines running. This was recorded early in the morning before any activity began in the rail yards. Slight breeze. Pigeon flocks can be heard flying at various times. Sounds of loader tractors with backup beepers and dump truck air horn can be heard in distance. Rail yard employee going to work drives car up the road from rear array and into yard entrance across tracks on left side at about 2:30. **Total Time 4:00**

Train And Plane At Intersection - Recorded at same location as “Busy Intersection B”. Train crossing gate is at far right – warning bells start at :05 seconds. Train sound path goes from Center Rear to Right Front. There are buildings between the tracks and the location of the microphone array so the sound is somewhat naturally attenuated until just before the train crosses the gate at 1:51. Car alarm horn on left rear at 2:49 – five honks. Jet airliner flies across overhead starting at 3:12 from right front to left rear. **Total Time – 4:20.**

www.iguanakitchen.com

4

[Email: info@iguanakitchen.com](mailto:info@iguanakitchen.com)

Yard Engines - recorded in the morning at a mid-sized clarification yard (freight yard) on a secondary rail line (not a major traffic line or yard). Rail yard is in the front array, general traffic from several truck warehouses in the rear array.

3 Engines Pass – Two switch engines in tandem power – EMD MP15AC with a GE B36-7 (remote control application RCPHG4) approaching from the right side. In front of microphone array the engines stop to allow another engine – a single EMD SD40-2 approaching from the left - to cross the tracks. Then EMD MP15AC sounds warning bell and continues through left side. **Total Time - 4:30.**

2 Switch Engines Moving Gondola Cars (switching tracks) – The EMD MP15AC and GE B36-7 listed above pulls a line of empty gondola cars from far left front to right and stop. Then the engines push the cars back from right to left front to send two cars down a different track. The engines back up from left to right and repeat this maneuver twice and then they finally move off to the far left distance. Two other engines, EMD SD40-2 and EMD GP38-2 can be heard idling in the distant front center at the beginning and end of this track. **Total Time 5:00.**

RURAL COUNTRY – Way out in the boonies. Rural farm areas to be specific.

COUNTRY ROAD - Two lane road out in countryside. Speed limit along road is 55 mph. Microphone array was placed about six feet off roadway. Nine vehicles pass by the front microphones during recording. Graveyard with trees and bushes in the rear array and pasture with trees across road in front array. Birds and squirrels heard in area. **Total Time – 4:00.** Vehicles and direction of pass-by: **1)** Moped – left to right. **2)** Pickup – left to right. **3)** Semi Tractor w/o trailer – left to right. **4)** SUV – left to right. **5.)** Panel Truck – right to left. **6) & 7)** Two pickups – one right after the other – left to right. **8)** Car – right to left. **9)** SUV – right to left.

FARM FIELD – Out in the middle of nowhere about 100 yards off a dirt road, about fifteen miles from nearest paved road. Deep in the woods & pastures. Distant hay mower can be heard. Many birds and crickets chirping. **Total Time 4:00.**

TRAFFIC AMBIANCES – Major vehicle and traffic noises recorded very close to the streets.

Downtown Plaza – windy afternoon right around start of rush hour, near an intersection. Noise from flagpole cord being bounced around by wind. Busses and truck brakes squeaking. Car startups. Pedestrians walking. **Total Time 4:00**

INTERSECTIONS – Busy traffic intersections in a variety of urban and suburban locations. Great backgrounds for urban scenes.

Intersection 01 – A five way intersection between two major roads (one splits into two). Traffic on these roads typically travel at 45 to 55 mph. Lots of cars, delivery trucks, gravel trucks, motorcycles, SUVs, semi trucks, school busses, etc. Recorded at a strip mall along side the intersection, the parking lot was in the rear array. **Total Time 5:00**

Intersection 02 – Recorded in a strip mall parking lot along a major four lane road directly in the middle between two intersections with other major streets. Vehicles include cars,

delivery trucks, busses and semi tractor trailer trucks, with more vehicle noise coming from parking lot in rear array as well. **Total Time 4:00.**

Intersection 03 – Downtown major metropolitan city morning rush hour. Microphone array was behind parked car between sidewalk and traffic lane, pointed at oncoming traffic on one road with the intersecting road going across in the rear array. Traffic in stereo mix goes from left to right, but in surround mix traffic approaches from left front and passes along left side to left rear. Busses, cars, and delivery trucks and heavy distant traffic. Some pedestrians walking as well, somewhat windy. **Total Time 5:30.**

Intersection 04 – Suburban intersection of two main village roads near elementary school. Traffic speed is 25 mph on these two roads. Array was placed at one corner of cross street. Lots of cars, mini vans, pickup trucks, smaller delivery trucks, and busses. Birds and crickets, and almost no wind. **Total Time 5:00.**

Intersection 05 – Downtown area of a smaller village with railroad tracks going through a major intersection. No trains. Another main intersection is about 1000 feet to the left of the array's location. Car honking in distance at :35 seconds, at 2:05 and 4:06 – 4:13. Lots of brakes squeaking and truck trailers bouncing. Average speed about 25-30 mph. **Total Time 5:00**

Intersection 06 – Same intersection as 05 but different time of day with heavier traffic: more trucks, motorcycles, cars, and SUVs. Car horn blast heard at 2:55. Traffic speed about 20 – 25 mph in this area. **Total Time 5:00**

Intersection 07 – Two rural four-lane highway intersection with railroad crossing. No train in this recording. Starts with sound of trucks waiting at intersection; traffic speeds about 45 to 50 mph. Motorcycles, cars, SUVs, pickup trucks, and large dirt haulers and semi tractor-trailers. Cars cross railroad tracks in the front right. **Total Time 5:00**

INTERSTATE AMBIANCE – Heavily trafficked Midwestern interstate freeway. Traffic speed along this stretch approximately 65 – 75 mph. Recording location is a rest stop and idling truck engines are heard in background along with trucks occasionally starting up and driving off.

Interstate 01 - Heavy morning traffic on the interstate freeway. Driver gets into parked semi in rear array (surround mix) at 3:17 and another semi pulls into rest stop at 4:27. **Total Time 5:00.**

Interstate 02 – Slightly less traffic on the freeway, more noise from the rest stop parking area. Driver gets into semi at 1:00 in the rear channels (surround mix) and starts his rig at 1:19 but there is a lot of sudden traffic on the freeway too. Another driver gets into his semi at 1:40, starts the rig at 1:42 and they both pull out between 2:14 and 2:29. Another truck releases air brakes and starts up at 4:36. **Total time 5:00.**

RAILROAD CROSSING WAREHOUSE DISTRICT – No trains come through but a lot of heavy trucks – semis and gravel haulers cross over the tracks (2 main line and 1 siding). Major big engine noise due to road incline a few hundred yards to the left side of the array... braking for trucks

approaching from left and revving up the speed and gears for trucks approaching from the right. Lots of echoes from brick warehouse building in right array.

RR Xing Warehouse District 01 – less traffic with one major bump across the tracks from an empty two trailer dirt hauler starting at 3:22. **Total Time 5:00.**

RR Xing Warehouse District 02 – Much more traffic including semis, dirt haulers, box trucks and pickup trucks. **Total Time 5:00.**

STREET SWEEPER (ELGIN WHIRLWIND) - Suburban morning ambiance. The street sweeper is heard in distance then approaching closer from right rear, and passing through left rear side and off in distance again. **Total time – 1:41.**

UNDERGROUND PARKING LOT – Three level underground parking lot beneath government offices in downtown urban area.

Underground Level 01 – Upper level of the lot – just below surface. Speaker from pay booth, cars doors shutting and opening, cars starting and driving off, cars entering lot and parking or driving to lower levels, pedestrians walking by. **Total Time 4:00.**

Underground Level 02 – Less traffic than level 01 and more noise from massive exhaust fans. Ped doorway opens at :56 seconds and female with high heel shoe clicks walks through, reaches SUV at 1:35, starts SUV at 1:39 and drives off. Other noises from above level and street level can be heard. **Total time 4:00**

Underground Level 03 – Lowest level and very few vehicles. Massive sound from the large exhaust blower fans. Some sounds of vehicles from upper levels can be heard above the noise of the blowers. **Total Time 4:00.**

URBAN SPRAWL – Massive sounds... the biggest urban jungle sounds in the collection. Recorded from the top level of an outdoor parking lot in a downtown area. Major freeway intersection, heavy road construction with jackhammer, and sky scrapper building construction up above all going on within 200 yards from microphone array placement. Additional air traffic, single engine planes and jet liners flying over. Echoing of freeway sounds from building being constructed in rear array (especially noticeable in surround mix).

Urban Sprawl Version A – Freeway is in the center front, road construction is in the lower right and building construction is in the upper left. Jack hammers and sand blasting in the road construction audio. **Total Time 4:00.**

Urban Sprawl Version B – Freeway is to the left, road construction is in the lower center, and the building construction is on the upper right. Pickup truck drives past left side at 2:05. Medium sized single engine plane flies overhead at 2:49. **Total Time 4:00.**

WINDY MORNING – Recorded in suburban setting at about 6:00 am – very windy, tree branches squeaking due to breeze. Some morning traffic can be heard, and some nighttime crickets are still chirping in the background. **Total Time 3:30.**

INTERIOR SOUNDS AND AMBIANCES

BANK INTERIORS – Recorded in the lobby of a large main office bank building. Stand alone bank, not part of another building.

Behind Teller Counter – perspective from between teller stations and drive up window at a bank. Typing checks, computer terminal typing, pneumatic tube for drive up, adding machine run and dot matrix printer. **Total Time 2:00.**

Drive Up Window Tubes – Sending and receiving pneumatic tubes from inside the bank behind the teller counter perspective. **Total Time 1:23**

BASEMENT SOUNDS – Just can't get enough of subterranean sounds? Here are some you may not have seen before in a sound effects collection

DRYER AND WASHER RUN - We decided to run a top load washer and a dryer at the same time simply because they're rarely recorded together. Then we recorded a newer front load washer but only the washer as the dryer sounds the same as other dryers.

DRYER & WASHER A – START AND FILL – Top load washer and standard gas dryer. Dryer starts first and washer fills and then runs. **Total time 50 seconds.**

DRYER & WASHER B – RUN – Top load washer and standard gas dryer running together. **Total time 49 seconds.**

FRONT LOAD WASHER – Newer model front load washer. Four versions:

Front Load Washer A Start – Washer starts – fills and begins to run. **Total time 3:10**

Front Load Washer B Run – Washer running – load of towels. **Total time 2:03.**

Front Load Washer C Rinse Cycle – Washer empties soapy water and fills with rinse water and runs. **Total time 2:00.**

Front Load Washer D Spin Cycle – Washer starts and completes entire spin cycle with heavy load of towels, with run down and ending. **Total time 5:03**

FURNACE START AND RUN - Newer gas furnace in smaller house. Recorded from about 10 feet away. Furnace starts, blower starts, burner ignites, fan starts up, and then normal operation for remainder of recording. **Total time 2:00.**

SOUNDS OVERHEAD - This is a collection of recordings where the microphone array was placed in the basement of a typical home and a variety of sounds were made on the floor above. The type of flooring is indicated in each sound category.

1 Liter Soda Pop Bottle Rolled Overhead - Two versions, full 1Ltr. Plastic bottle rolled on wood floor. **Total time 14 seconds.**

www.iguanakitchen.com

8

[Email: info@iguanakitchen.com](mailto:info@iguanakitchen.com)

Big Butt Bounce Overhead – Bouncing my big butt on wood floor repeatedly and directly above the microphones. What we do for art... **Total time 05 seconds.**

Hoover Vacuum Overhead – Hoover Wind Tunnel Vacuum, older model. On carpeted floor of small room with no furniture. Four versions with vacuum going in different directions, as indicated.

Hoover Vacuum 01 – Directly overhead on and off only. – **Total time 15 seconds**

Hoover Vacuum 02 – Front to back starting on right side across to left side front to back. **Total time 58 seconds.**

Hoover Vacuum 03 – Right to left (side to side) starting in back across to front. **Total Time 1:17**

Hoover Vacuum 04 – Front to back then side to side. **Total time 2:46.** Roll over in-floor air register at :28 second mark

Shoe Drops Overhead - Pair of large shoes dropped on wood floor directly over the microphone array. **Total time 06 seconds.**

Sit Down Hard Overhead - Also could be described as a body impact. One hard sit down with no padding on a wood floor directly above the microphones. **Total time 04 seconds.**

TOY TRAIN OVERHEAD – Child's wooden steam train set with battery powered engine.

Toy Train 01 - various cars of a wooden railway set being thrown on and across a wooden floor. **Total time 28 seconds.**

Toy Train 02 - Battery powered wood toy train set running on oval shaped track directly over microphones. **Total time 1:06.**

Walking Overhead - Two versions as indicated below. Both start with climbing up carpeted basement stairs, walking through tile floor galley kitchen and then into hardwood floor living room, turn around, and go back.

Walking Overhead 01 – with shoes on. **Total time 31 seconds.**

Walking Overhead 02 – with socks only. **Total time 27 seconds.**

BATHROOM SHOWER – Two different kinds of showers, a shower stall in a basement and a bathtub shower in an upstairs bathroom.

Shower From Bedroom - Second floor master bedroom of smaller two-story house. Carpeting and drywall. Two windows in corner of room. Microphones placed with windows on left and behind. Bathroom is the next room over from the bedroom with a wall of closets separating. Fan vent turned on, water runs for temperature, shower turned on and run. **Total time 2:40.**

Shower Stall Close Up – Recorded inside bathroom right outside shower stall. No curtain or liner. Noise of air movement from central air unit running from ceiling vent above microphones is in

www.iguanakitchen.com

9

[Email: info@iguanakitchen.com](mailto:info@iguanakitchen.com)

background. Shower is turned on then off. After a pause the hot air ventilation fan is turned on and shower is run again then off and then ventilation fan turns off and timer for fan is still running. **Total Time 2:12**

Shower Stall Down The Hall – Recorded in next room slightly down the hall from the upstairs bathroom bathtub shower. Home's central air unit is running in background. The shower is run and shut off, then bathroom vent fan is turned on and shower started and shut off again, with vent fan shutting off.

Version A - With bathroom door open. **Total time 2:01.**

Version B - With bathroom door closed. Just outside in hall. **Total time 1:47.**

INDOOR PRO FOOTBALL PRACTICE - IFL team practice, but can also be used for any indoor football practice facility. Microphone array was placed between two indoor fields.

Version A: defensive team hitting blocking sled in front channels - offense team running plays in rear channels. Trash talk and general chatter from team members. Commands and yelling from coaches. Some whistles to stop the offense plays. **Total Time – 2:18**

Version B: defense and offense together on field in front channels running series of plays. Coaches yelling instructions and general team chatter. Five plays run. **Total Time - 3:42**

INDOOR SOCCER PRACTICE – Large indoor soccer facility with three full size fields and two half sized fields. Amateur and school teams playing on every field and family members and other people watching the games. Array was located between two of the full sized fields so there is a separate game in the front array and in the rear array. Perspective would be for fans or people watching the games or perhaps coaches and scouts. Or perhaps homicide detectives looking for clues in a soccer mom murder?!? **Total Time 5:30.**

KITCHEN SOUNDS – Some noises from a small to medium sized kitchen in a two story house. Not a 'gourmet' type kitchen, but an average one with some newer appliances.

Gas Stove Frying Ham – Newer model gas stove, stainless steel frying pan with one ham steak on the high burner. Burner light and adjust flame, ham steak dropped in. Turned once and out of the pan, burner off. **Total Time 1:14**

Microwave Only 30 Seconds – Microwave runs on high power for 30 seconds. Door open, glass dish put in, door closes, time set and power on. Runs for 30 seconds, timer beeps and microwave off. Door opens glass dish removed, door closed and dish placed on counter. **Total Time :57 seconds.**

Sink Garbage Disposal – Grinding up a bag of baby carrots. Sink faucet on, under sink cabinet door opened to access garbage disposal power switch, then turned on, and handfuls of carrots shoved in at repeated intervals. Then just past :55 seconds a couple of carrots are thrown down and catch on the blades and run funny until breaking loose and grinding up. Disposal turned off, water turned off and sink drains. **Total Time 1:25.**

www.iguanakitchen.com

10

[Email: info@iguanakitchen.com](mailto:info@iguanakitchen.com)

LARGE CATHEDRAL - Urban Cathedral location. These recordings were made in the sanctuary, in the evening when the sanctuary was not being used. Room size approximately 75 feet wide by 150 feet long. Ceiling height at over 30 feet. Cobblestone floor, stone walls, wood trim, and wood ceiling. Sanctuary has balcony that runs in a U-shape from the front alter area on both sides into the back with stairway access at both ends and in the middle back. The steam heating system can be heard hissing in the background.

Large Cathedral Interior Ambiances

Version A - Mostly quiet in the sanctuary with a few creaks and snaps of the old building during a cold night. **Total time 3:00**

Version B - As with version A but some additional noises including exterior traffic (metro busses and cars). **Total time 3:30**

Large Cathedral Loud Impacts

Large Cathedral Door Slam - Interior wooden door in back of sanctuary separating sanctuary from outer foyer – the location of the door is in the right rear of the sound field. **Total time 06 seconds.**

Large Cathedral Drop 01 Heavy drop thud – **Total time 04 seconds.**

Large Cathedral Drop 02 Another heavy drop – **Total time 04 seconds.**

Large Cathedral Walk-around - Starting in lower sanctuary, footsteps walking up right side, out of sanctuary and reappearing in upper balcony right side, then upper balcony left side then down on left side of sanctuary. **Total time 2:30.**

LAWN SERVICE FROM HOUSE INTERIOR – It's a nice, quiet afternoon; you just got the baby to sleep; maybe you have a splitting headache and are trying to take a nap – and who shows up outside? The lawn service! One guy riding a large pro sized standing mower and another guy with a weed whacker. **Total Time 1:45.**

LIVING ROOM OF SMALL HOUSE - 1200 square foot ranch home on semi-quiet suburban street. Recorded in living room on a Saturday morning in spring with the windows closed. Some traffic noises and bird noises outside. Clocks ticking in living room and kitchen.

Living Room Version A - Shorter version with car passing from left to right. Microphones directed with windows and street facing left to right front. **Total time 1:30.**

Living Room Version B - Microphones directed with windows and street on left front to rear. Large truck pulls up and stops. **Total time 3:00.**

Living Room Version C - Microphones directed with windows and street at front left to right. Quieter version with no street traffic. **Total time 3:00**

MECHANIC'S SHOP - The Mechanic's Shop is actually the repair center for a Fire and Emergency Services Vehicle dealership. Unless otherwise noted, the microphone array was placed as close to the equipment being used as possible. Each recording features the equipment being turned on, used, and then turned off with, when applicable, rundown of the equipment.

Acetylene Torches - Two different size torches, large unit and a smaller portable torch, and a misfiring torch.

Large Torch A - Ignite, on, adjust flame, and pop off. **Total time 14 seconds.**

Large Torch B - Quick on and off. Ignite and loud pop. **Total time 04 seconds.**

Small Torch A - Ignite with cigarette lighter, adjust flame, cutting, shut off w/o pop sound. **Total time 45 seconds.**

Small Torch B - Ignite with lighter and quick off. **06 seconds.**

Torch Misfires - The technical term for this is, "idiot holding the torch doesn't let enough gas into the hose". The result is when you try to light the torch you get a rapid sparking sound similar to a machine gun but with a different tonal quality. Several different versions. **Total time 13 seconds.**

Bench Grinder - Dayton Bench Grinder manufactured in 1975, one horse motor and 10" grind wheels. Four different type of grind recordings as listed below:

Bench Grinder 01 – turn on, grinding steel channel - turn off – wheel rundown. **Total time 51 seconds.**

Bench Grinder 02 – turn on, grinding steel channel with coarser grind wheel– turn off – wheel rundown. **Total Time 1:34.**

Bench Grinder 03 – turn on, grinding half inch round steel – turn off – wheel rundown. **Total time 1:15.**

Bench Grinder 04 – turn on, grinding half inch steel round with coarser grind wheel - turn off – wheel rundown. **Total time 1:23.**

Buffing Jack - Custom built in 1939. Buffing out a piece of 306 stainless steel to a shiny finish.

Buffing Jack 01 - Light buffing wheel start up buffing for a bit, followed by pushing steel on wheel hard enough to stop wheel, releasing run up followed by a bit more buffing, power off and wheel run down. **Total Time 1:42.**

Buffing Jack 02 - harder density buffing wheel, startup, and buffing then steel pull off hard, power off and wheel run down. **Total Time 57 seconds.**

Diesel Engines Inside Shop - Three different diesel truck engines are started inside the shop with the doors closed and no outlet hose on the exhaust system. Engines revved up, and shut down

with air brake cylinder release at end. Microphone Array was placed approximately 10 feet away from each truck's exhaust pipe.

Diesel Engine Version A – Detroit Diesel V-6; 2-Stroke – straight exhaust no muffler.
Total time 54 seconds.

Diesel Engine Version B – Detroit Diesel Straight-6; 4-Stroke – also straight exhaust no muffler. **Total Time 1:21.**

Diesel Engine Version C – Caterpillar Diesel V-8; 4-Stroke – with typical exhaust and muffler system. **Total Time 59 seconds.**

Dropping Scrap Metal - Various scrap steel, aluminum and hardened steel. Bar, angle bar, blocks, and plate scrap being dropped on concrete floor.

Aluminum Plate Drop A - Quarter inch aluminum plate 10 inches wide four feet long with two inches of one side bent at 90 degrees. Four drops – two on angled side, two on flat side. **Total time 19 seconds.**

Aluminum Plate Drop B - Three pieces of quarter inch by three feet aluminum plate bolted together and dropped. **Total time 04 seconds.**

Box of Scrap Steel Dumped - Large amount of various sized scrap steel pieces dumped. **Total time 06 seconds.**

Picking Up Steel Shards - By hand at first, throwing larger scrap steel pieces back in box. Then using shovel to pick up the smaller scrap. **Total time 1:45.**

Steel Drops – forcefully dropping various heavy steel pieces to the concrete floor.

Steel Drop A - Two versions of same angle bar - first drop, microphone placed five feet away.... Second drop, microphones placed 15 feet away. **Total time 11 seconds.**

Steel Drop B - Hardened one inch thick bar three feet long dropped onto floor with some scrap. **Total time 04 seconds.**

Steel Drop C - Two angle bars, each one-inch by five feet by quarter inch dropped on top of each other in X pattern. **Total time 05 seconds.**

Steel Drop D - Hardened steel bar, half inch thick five inches long bent at center 90 degrees. **Total time 04 seconds.**

Steel Drop E - Several kinds of steel including plate, bar, and hardened block all dropped in a big smashing sound. **Total time 03 seconds.**

Garage Bay Door Open & Close – Sixteen-foot tall shop bay door going up overhead and back down. Microphone array placed approximately five feet from center of door inside shop. Really highlights IMAX channel. **Total time 52 seconds.**

www.iguanakitchen.com

13

[Email: info@iguanakitchen.com](mailto:info@iguanakitchen.com)

Hand Grinder - Electric hand grinder with a 4½-inch wheel.

Hand Grinder Version A - Cutting wheel on steel channel. **Total time 51 seconds.**

Hand Grinder Version B - Cutting wheel as above, different side. **Total time 1:02.**

Hand Grinder Version C - Grinding wheel smoothing out surface of steel channel.
Total time 51 seconds.

Impact Wrench - Removing, then putting back on two-inch diameter lug nuts from fire truck wheel.
Two versions of different perspectives.

Impact Wrench Version A – **Total Time 26 seconds.**

Impact Wrench Version B – **Total time 26 seconds.**

Metal Lathe - Built in 1912 by the Chard Lathe Company. Two speed direct motor drive. Power on – run – power off. Two different versions.

Metal Lathe Version A - Problem with clutch engaging after startup. **Total time 23 seconds.**

Metal Lathe Version B - Clutch engages no problem. **Total time 13 seconds.**

Plasma Torch - Powermax 800 Hypertherm Plasma Torch... Cutting half inch by two inch steel bar.
Two cuts, each piece falls to floor after cut. **Total Time 55 seconds.**

Shop Hammers - Five pound shop hammer and ten pound sledge hammer being hit hard on several different types of surface. Each version has a completely different sound from the rest. Multiple hits for all versions but enough pause to isolate each one if needed.

Five Pound Version A – **14 seconds**

Ten Pound Version A – **09 seconds**

Five Pound Version B – **11 seconds**

Ten Pound Version B – **18 seconds**

Five Pound Version C – **10 seconds**

Ten Pound Version C – **17 seconds**

Five Pound Version D – **13 seconds**

Five Pound Version E – **09 seconds**

Steel Band Saw - Dayton Bandsaw, manufactured in 1975, sawing through 2 inch by 3/8-inch 6063-aluminum alloy aircraft bar.

Band Saw Version A - Power on, sawing through, part of bar drops to floor, power off.
Total time 35 seconds.

Band Saw Version B - Power on, operator forces cutting bar faster, piece drops to floor, power off. **Total time 14 seconds.**

www.iguanakitchen.com

14

[Email: info@iguanakitchen.com](mailto:info@iguanakitchen.com)

Steel Plate Shear - 1926 Stamco steel plate shear with 30-inch heavy flywheel cutting quarter inch stainless plate bars. Power on, flywheel run-up, four slow cuts and then ten rapid cuts, power off, and long flywheel run-down. **Total Time 1:59**

Welding ¼ Inch Steel Diamond Plate - MillerMatic 200 Mig Wire Welder. Welding ¼ inch Steel Diamond Plate to back bumper of delivery truck. Partially rusted plate with lots of sparking. Two versions different time lengths.

Welding Version A – Total Time 40 seconds

Welding Version B – Total time 41 seconds.

Wood Sawhorse Drop - On concrete floor. **Total time 03 seconds.**

OFFICE LOBBY WALK-AROUNDS – Small office building atrium with open upstairs offices. Stairway located to right of microphone array. Two people walking around the lobby – footsteps, doors opening, up and down stairs, and elevator use. **Total Time 4:08.**

POPCORN MAKER IN SMALL LOBBY - Movie theater style popcorn machine recorded from across a small lobby. Could be background for office or movie theater lobby. Stirring mechanism running and popping. Popcorn gets dumped out at end and door of popcorn maker is closed. **Total Time 3:15.**

ROOFING FROM INSIDE - Suburban home getting a new roof: Old roof being torn off and new shingles being pounded into place and workers walking around on roof. Recorded from inside the house with microphone array in bedroom directly below where the work was taking place. Uses: home remodeling scenes, being rudely awakened by home repairmen, home invasion or rooftop invasions (i.e. “Signs”)

Roofing Inside Version A: tearing off the old roof recorded from underneath in a smaller bedroom. There are two 12-second pauses in work, one at 1:07 and the other at 2:09. **Total Time - 5:00**

Roofing Inside Version B: hammering down new roof. Includes workers walking around and dropping bundles of shingles. **Total Time - 5:00.**

SMALL CHURCH OR MEETING HOUSE - Very small country church on a two-lane road out in rural farmland. The road is approximately 30 feet from outside doors. There is no hall or chamber separating the doors from the sanctuary. The doors were closed during the recording session. Room size about 50 feet by 100 feet ceiling height about 20 feet, hardwood floors, wood panel wainscoting and plaster walls and a plaster vaulted ceiling.

Small Church Version 01 - Silent interior with small clock ticking. **Total time 1:30.**

Small Church Version 02 - Three vehicles pass by outside from right to left. **Total time 1:12.**

www.iguanakitchen.com

15

[Email: info@iguanakitchen.com](mailto:info@iguanakitchen.com)

Small Church Version 03 - Footsteps from front to back of church on right side. Two cars pass. Church bell is rung three times (inside perspective). Footsteps down stairs in back on right and basement door opens and closes. **Total time 1:26**

WEAPONS AND EXPLOSIONS

FIREWORKS & FIRECRACKERS - Recorded 4th of July 2007.

Firecrackers – Neighborhood nut shooting off individual firecrackers. Recorded about 1,000 feet away from source.

Firecrackers Version 01 - Total time 4 seconds.

Firecrackers Version 02 - Total time 3 seconds.

Fireworks – Both are from two different city fireworks displays recorded near the massive finale. Both also could be used to sound like a war zone or area being bombed.

Fireworks 1 Mile Away – microphones placed about a mile away from the fireworks. **Total time 2:27.**

Fireworks 10-Miles Away – microphones placed 10 miles away from the fireworks. **Total time 4:41.**

INDOOR SHOOTING RANGE – Recorded early in the morning before the shooting range opened to the public. The microphone array was placed between the shooter and the target about half way down the length of the galley and slightly to the side. Massive reverberation – could be used as “sweetening” for gunshots or explosions, or could also be used in scenes set in warehouses or large buildings. The ceiling of each room of the shooting range is comprised of a few drop-ceiling tiles above the shooting area and the un-insulated underside of the roof of the building with some steel plate baffling. The walls of both rooms are concrete block all the way around, the floor is poured concrete, and the shooter is firing the weapons at a steel plate centrifuge which is wedge shaped inward so that the bullets are caught and dropped into a five gallon bucket. In several of the recordings you can hear the bullets hitting the centrifuge and dropping into the bucket.

Indoor Shooting Range Next Room - These tracks were recorded at the indoor shooting range with the microphone array in shooting range room “A” and the shooter in shooting range room “B”, right next door.

Ruger KMKIII678GC 22 Caliber Target Pistol - Full clip single shots then full clip rapid shots. **Total Time 37 seconds.**

www.iguanakitchen.com

16

[Email: info@iguanakitchen.com](mailto:info@iguanakitchen.com)

Smith and Wesson Model 629 44 Magnum Revolver - Single shots with high attenuation then less attenuation. **Total time 31 seconds.**

Smith and Wesson Model 500 Revolver 50 Caliber Magnum - This is the largest caliber handgun in the world. And with all due respect to Dirty Harry, this hand cannon will rip your shoulder out of its socket. Single shots with high attenuation then less attenuation. **Total Time 1:09**

Smith and Wesson Model 686 Revolver 357 Magnum - Single shots with high attenuation then less attenuation. **Total time 32 seconds.**

Sig Sauer Model P226 9mm Sport Pistol - Two versions:

Sig Sauer 9mm 7 Rounds Rapid – very little attenuation. **Total Time 10 seconds.**

Sig Sauer 9mm 7 Single Shots - high attenuation. **Total Time 32 seconds.**

Indoor Shooting Range Same Room - As the name implies these guns were recorded with the microphone array in the same shooting gallery room as the shooter. The array was setup downrange, halfway between the shooter and the previously mentioned steel plate centrifuge. We were unable to record the 50 caliber and 44 magnum S&W pistols in this setting due to massive clipping problems from those big guns.

Ruger KMKIII678GC 22 Caliber Target Pistol - Two versions – low attenuation:

Ruger 22 Ten Rounds Rapid – **Total Time 16 seconds.**

Ruger 22 Ten Single Shots - **Total time 1:02.**

Ruger 45 Caliber Clip Semi Automatic - Two versions – low attenuation:

Ruger 45 Three Single Shots – **Total Time 29 seconds.**

Ruger 45 Eight Rapid Shots – **Total Time 13 seconds.**

Smith & Wesson 38 Special Revolver - Single shots, low attenuation. *Note: this is the same gun as the 357 Magnum in the next room recordings listed above.* **Total Time 53 seconds.**

Sig Sauer Model P226 9mm Sport Pistol - Two versions, low attenuation:

Sig Sauer 9mm Three Single Shots – **Total Time 30 seconds.**

Sig Saur 9mm Eight Rapid Shots – **Total Time 14 seconds.**

OUTDOOR SHOOTING RANGE - The outdoor shooting range is located off a rather busy country highway, a few miles north of the nearest city. Never the less some traffic noise is apparent in some of the tracks. In each case the microphone array was placed between the shooters and the target. There was no wind during the recording session but there was some bird noise in the background as well on some of the tracks.

www.iguanakitchen.com

17

[Email: info@iguanakitchen.com](mailto:info@iguanakitchen.com)

Chinese Mfg. SKS Samozaryadnyi Karabin Sisyemi Simonova Obrazets 1945g with muzzle. 7.62x39mm M43 cartridge. Single and Rapid shots. This particular model has a synthetic body suited for rainy climates. **Total Time 19 seconds.**

Remington 870 12-Gauge Pump Shotgun. Rapid shot 5 shells. **Total Time 11 seconds.**

Remington 22 Caliber Rifle (unsure of model number or year). Single Shots with bolt lever. **Total Time 27 seconds.**

Soviet (Yugoslavian) Mfg. Samozaryadnyi Karabin Sisyemi Simonova Obrazets 1945g - commonly just called the SKS rifle. 7.62x39mm M43 cartridge. THE weapon of choice of terrorists and the Red Army of the mid to late 1970s and 1980s. Single and Rapid shots included in this recording. **Total Time 25 seconds.**

Two Pistols – A Ruger 22 Target Pistol and a Taurus 38 snub nose. The 22 is on left and the 38 is on the right. **Total Time 23 seconds.**

Two SKS - The Soviet and Chinese SKS single shots and quick fire on left and right side. **Total Time 19 seconds.**

